

Ministry of Mines
National Mineral Exploration and Development Trust
Minutes of the 91st Technical-cum-Cost Committee-1 (TCC-1) Meeting held on
27th & 28th February, 2026 through video conferencing

The 91st Meeting of the Technical-cum-Cost Committee-I (TCC-1) of the National Mineral Exploration and Development Trust (NMEDT) was held via video conferencing under the chairmanship of Dr. S. Ravi, Deputy Director General (DDG), Geological Survey of India Training Institute (GSITI) and Chairman, TCC-1, NMEDT, on 27th & 28th February, 2026. Members of TCC-1, NMEDT and representatives from GSI, DGM Rajasthan, DMG Odisha, TGMDC, MECL, KIOCL, APC Drilling, Envirogreen Consultants (India) Private Limited, M/s Siddharth Geo Consultant, Gemcokati Exploration Pvt. Ltd., Eartnenviro Lab Pvt. Ltd., M/s. MMPL Private Limited, M/s. Critical Mineral Trackers, Vardan Environet LLP, Unised Research Consultants Pvt. Ltd., Indian Mining Planners and Consultant, M/s. Ocean Drilling and Exploration Private Limited, Mining Associates Pvt. Ltd., GMMCO, GeoExpOre Pvt. Ltd. and, Mining Tech & Consultancy Services Ltd. and have attended the meeting through their respective VC modes.

The list of participants is enclosed in Annexure-7.

Shri S. Dhanendran, Director, GSI and Member Secretary, TCC-1, NMEDT, welcomed Dr. S. Ravi, Dy. Director General, GSI and Chairman, TCC-1, NMEDT, Members of the TCC-1 and participants representing various Notified Exploration Agencies (NEAs) and Notified Private Exploration Agencies (NPEAs).

Dr. S. Ravi, Chairman of TCC-1, NMEDT, extended a warm welcome to all members of TCC-1 and participants representing various NEAs and NPEAs and conducted the proceedings as per circulated agenda.

Agenda 91.1: Technical evaluation of new project proposals
Agenda 91.1.1. Reconnaissance Survey (G4) for REE & RM in Chatrai-
Narasapuram area, Districts- NTR & Eluru, Andhra Pradesh.
[Implementing Agency: MECL]

- a. The project was already recommended in 79th meeting of TCC-I. However, the project was deferred in 1st PSC as the comments from State DGM and AMD was awaited. The comments from AMD was received, however, the state has not provided its comments till date. The project is being taken up for revision of cost as per revised SoC (2025).
- b. The block is falling in both Eastern Ghat Mobile Belt (EGMB), Peninsular Gneissic Complex.
- c. (PGC-II) and Gondwana Supergroup (Pranhita Godavari Valley). It is part of SOI Toposheet Nos 65C16 & 65D13.
- d. GSI reported that REE enrichment in the area was initially identified through high total REE concentrations in composite stream sediment samples during NGCM studies. SEM analysis revealed REE-bearing mineral phases such as monazite,

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zircon, and allanite. The REE occurrence is inferred to result from secondary enrichment due to weathering and erosion of heavy mineral-rich layers in garnetsillimanite gneiss, Eastern Ghat quartzites, and Gondwana sandstones indicating an alluvial placer-type deposit.

- e. Stream sediment samples from the proposed block show significant REE enrichment, with total REE values ranging from 672.72 to 2608.53 ppm and an average of 1167.32 ppm. Individual elements also recorded high concentrations, with averages such as 500.90 ppm, 265.16 ppm, and 207.19 ppm. Several other elements showed moderate to low values but remained within economically significant ranges. Overall, the data indicates strong potential for REE mineralization in the area, warranting further exploration.
- f. During 79th TCC-I meeting, the committee agreed to recommend the proposal for approval, while instructing MECL to conduct a few samples for heavy mineral studies.

Recommendations of TCC-1:

The committee recommended the proposal titled “Reconnaissance Survey (G4) for REE & RM in Chatrai-Narasapuram area, Districts- NTR & Eluru, Andhra Pradesh” for approval of PSC, NMEDT with an estimated cost of Rs. 102.33 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 1A & 1B. The item will be reviewed after 5 months.

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Reconnaissance Survey (G4) for REE & RM in Chatrai-Narasapuram area, Districts- NTR & Eluru, Andhra Pradesh
Total block area- 157.50 sq km; Completion Time- 10 Months, Auger drilling: 45nos (45*4=180m), Review: after 05 months

Sl. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item- S. No.	Rates as per SoC	Qty.	Total Amount (Rs)	
A	GEOLOGICAL WORK						
1	Geological Mapping (1:12,500)						
	Large scale (LSM) Geological Mapping/ Traverse mapping / Detailed Mapping in Peninsular India	per sq km	1.1 b	18300	157.5	28,82,250	
	Geologist man days (1 No.) for Geological map & Report (HQ)	days	1.2.1a (a)	10,500	45	4,72,500	
	a) Geologist man days (2 No) for Large scale (LSM) Geological mapping/ Trenching/ Drilling	days	1.2.1a (b)	14,500	45	6,52,500	For core logging and sampling
	b) Labour (field)	per worker	5.8	541	90	48,690	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	c) Sampler for Surface Samples/ Trench Samples / Core Samples Labour charge not included (1 sampler)	day	1.2.1 b	7850	41	3,21,850	
	d) 4 labours/ party (As per rates of Central Labour Commissioner)	day	5.8	541	164	88,724	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub-Total A					44,66,514	

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B	PITTING & TRENCHING						
	a) Excavation of pits for REE (5 pits)	per cu m	2.1.2	4725	20	94500	5 pits (1m*2m*2m) (4 cu.m *5 pits)
	Sub-Total B					94500	
C	DRILLING (outsourced)						
i	Auger Drilling for soft strata upto 150 m depth	per m	2.2.2.1	4,760	180	8,56,800	45 nos Auger Drilling for REE of 4m depth each
	Sub Total- C					8,56,800	
D	LABORATORY STUDIES						
1	Chemical Analysis						
	i) Separation of Mineral by isodynamic separator	per sample	4.3.5	4420	20	88,400	
	ii) Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS	per sample	4.1.15	7,400	290	21,46,000	50 Bedrock Samples + 10 orientation Pit samples in raw faction+ 10 orientation pit samples in HM faction+ 65 SSS in raw faction+ 15 SSS in HM faction+ 90 auger samples in raw faction+ 50 auger samples in HM faction
	ii) External Check samples for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS	per sample	4.1.15	7,400	29	2,14,600	10% of primary samples
	iii) Major oxides (WD XRF)- (oxides+ traces -24 elements)	Nos	4.1.17a	4,200	10	42,000	
	External check sample for Major oxides (WD XRF)- (oxides+ traces -24 elements)	Nos	4.1.17a	4,200	1	4,200	
2	Petrological / Mineralographic studies						

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	a) Preparation of thin section	per sample	4.3.1	500	10	5,000	
	b) Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo microgrphs)	per sample	4.3.4	2,800	10	28,000	
	c) Preparation of polished section	per sample	4.3.2	800	10	8,000	
	d) Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo microgrphs)	per sample	4.3.4	2,800	10	28,000	
3	XRD Mineral Phase Analysis	per sample	4.5.2	4,000	10	40,000	
4	EPMA Studies	per hour	4.4.1	10,500	10	1,05,000	
						Sub-Total D	27,09,200
						Total (A TO D)	81,27,014
E	Total outsourced cost (drilling)					8,56,800	
F	Tendering process cost	one time	5.9	2% of approved project cost or 5 lakhs whichever is lower		17,136.0	
G	Technical Supervision cost	one time	6	Technical Supervision cost shall be 10% of the sum of all the outsourced work components with a maximum ceiling of ₹ 20 lakh.		85,680.0	
H	Geological Report Preparation	Nos	5.2 (ii)	Total cost exceeding ₹50 lakh but less	1	2,50,000	

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				than 150 lakh: ₹2.5 lakh.			
I	Preparation of Exploration Proposal	Nos	5.1	2% or Rs. 500000 whichever is less	1	1,62,540	EA has to submit the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC- NMET in its meeting while clearing the proposal.
J	Report Peer Review Charges	lumpsum	As per EC decision	30000	1	30,000	
K	Total Estimated Cost without GST					86,72,370	
L	Provision for GST (18%)					15,61,027	GST will be reimburse as per actual and as per notified prescribed rate
M	Total Estimated Cost with GST					1,02,33,397	
					Say, in Lakhs	102.33	
Note:							
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the and Item no. 6 of NMET SoC. In case of excusion of the project by NEA on its own, a Certifiante regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						

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Time Schedule/ Action Plan for Reconnaissance Survey (G4) for REE & RM in Chatrai-Narasapuram area, Districts- NTR & Eluru, Andhra Pradesh

S. No.	Particulars	Months/ Days	1	2	3	4	5	Review	6	7	8	9	10	
1	Camp Setting	months	■											
2	Geological Mapping & sampling	months	■	■	■	■	■							
3	Pitting	cu.m			■	■	■							
4	Auger Drilling	m								■	■			
5	Geologist days	days	■	■	■	■	■			■	■	■		
6	Sampling days	days			■	■	■			■	■	■		
8	Camp winding	months											■	
9	Laboratory Studies	months				■	■			■	■	■	■	
10	Geologist days, HQ	days											■	■
11	Report Writing with Peer Review	months											■	■

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Agenda 91.1.2. Reconnaissance Survey (G4) for Limestone & Associated Minerals In Prashnawada-Padruka (Block-A) & Kadwasan (Block-B), Gir Somnath District, Gujarat.

[Implementing Agency: APC drilling]

- g. The Prashnawada–Padruka (Block-A) and Kadwasan (Block-B), located in Gir Somnath district of Gujarat, fall within Survey of India Toposheet Ns. 41L/09 and 41L/05.
- h. The committee noted that the proposed block is located in the Saurashtra region of Gujarat.
- i. The litho-units exposed in the area comprise Deccan Traps and Tertiary sediments of the Gaj Formation (Eocene to Miocene), including calcareous sandstone, pebbly sandstone, pebble bed, clay, and marl.
- j. DGM, Gujarat, during the field programme of 1983–84, carried out detailed exploration followed by drilling for limestone in the villages of Padruka, Kadasala, Solay, and Matana in Veraval/Sutrapara Taluka of Junagadh (present Gir Somnath) district.
- k. It was recommended to continue investigations to explore and study the entire miliolitic limestone in the coastal areas of Saurashtra for chemical-grade limestone.
- l. CGM, Gujarat, during the field season 1995–96, carried out geological mapping (1:50000 scale) over an area of about 2580 sq. km using remote sensing techniques in parts of Junagadh (present Gir Somnath) and Jamnagar (Porbandar) districts of Saurashtra.
- m. Based on recommendations of previous works, CGM, Gujarat has identified Prashnawada (G4 level), Padruka (G3 level), and Matana (G4 level) blocks for exploration of limestone.
- n. The agency informed the committee that reconnaissance survey at G-4 stage will be carried out in Prashnawada–Padruka (Block-A) and Kadwasan (Block-B), involving large-scale mapping (1:12500 scale), bedrock sampling, pitting/trenching, and drilling of 12 vertical core boreholes in these blocks.
- o. It was informed that State government of Gujarat has given NoC for these two blocks.
- p. The committee reviewed the proposal and advised the agency to undertake G-3 stage exploration for limestone and associated minerals in the proposed block, to be carried out in two phases.
- q. The committee suggested that Phase-I shall comprise detailed mapping and sampling, followed by Phase-II involving drilling on an 800 m × 800 m grid pattern, to be initiated after review of surface sample analysis.
- r. The agency was further advised to submit a revised DPR and cost estimate in line with the discussions for G-3 stage exploration.

Sl. No.	Agency	Brief Comments
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1.	GSI	There are no ongoing reconnaissance or exploration projects pertaining to limestone or any other mineral in the proposed area
2.	MECL	No overlapping with MECL explored block and ongoing blocks.
3.	AMD	NA
4.	State DMG/DGM/CGM	After excluding the overlapping areas, the revised boundary comprising 5.00 sq. km for Prashnawada-Padruka Block-A and 11.5 sq. km for Kadwasan Block-B, which fall outside the blocks and outside the existing lease areas, has been taken into consideration. NOC has been granted only for the revised block areas.
5.	NMEDT	There is no overlapping with NMEDT funded project.

Recommendations of TCC-1:

The committee deferred the proposal as the agency did not submit the revised DPR and cost estimate during the meeting, and advised the agency to present the same in the next TCC-1 meeting.

Agenda 91.1.3. Reconnaissance Survey (G4) for Tin, Lithium, Niobium, Tantalum & RM Minerals in and Around Mundwal-Puspall-Marjum ares, Sukhma, Baster and Dakshin Bastar Dantewada Districts, Chhattisgarh

[Implementing Agency: Siddharth Geo Consultant]

- a. The committee was informed that the proposed block falls in Survey of India Toposheet Nos. 64F/9, 64F/10, 64F/13, and 64F/14, and exposes litho-units comprising sericite quartzite, quartz-sericite schist, garnet-staurolite gneiss, and andalusite schist of the Bengpal Group.
- b. The committee further noted that the Bengpal Group rocks are intruded by basic sills of epidioritic to gabbroid composition (Murti, K.S. et al., 1979), and subsequently by granites (Darba and Paliam), along with pegmatites, quartz veins, and basic dykes.
- c. Stanniferous pegmatites present in the area are genetically linked to the syn- to post-kinematic phases of the Darba/Paliam granitic intrusions.
- d. The committee further noted that these older formations are overlain by Late Precambrian sedimentary sequences of the Indravati and Sukma Groups, comprising conglomerates, siltstones, and limestones.
- e. It was also noted that systematic geological mapping in the region was carried out during 1975–1980 by organizations such as the Geological Survey of India, Directorate General of Mines (Madhya Pradesh/Chhattisgarh), and UNDP.
- f. The committee noted that reconnaissance geological mapping in the Bengpal–Ellingnar block was carried out by GSI on a 1:15,840 scale, followed by detailed investigations in selected zones through large-scale mapping (1:5000), pitting, bulk sampling, and gravity concentration using manual panning and sluicing techniques.

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- g. It was further noted that an area of 25.3 sq. km was covered under preliminary survey, leading to the delineation of promising sectors aggregating 5.7 sq. km in adjoining Kudripal, Jangarpal, Murgel, Chidpal–Kankapal, and Tongpal–Marjur blocks.
- h. The committee also noted that pegmatites emplaced within meta-basic lithounits host lithium mineralization, enriched in lepidolite and amblygonite with Li values ranging from ~3,100 to 36,000 ppm, along with cassiterite (45.36–74.85% SnO₂) and minor niobium–tantalum phases (Ta₂O₅: 4.36%–14.45%).
- i. The committee noted that exploration data indicates significant occurrences of cassiterite (>1000 ppm) in the majority of samples, along with associated critical elements such as Nb-Ta, Ag, Li, and other rare metals, occurring in both primary and secondary deposits.
- j. It was further noted that primary mineralization is confined to pegmatites and quartz–sericite schist of the Bengpal Group, whereas secondary deposits are mainly colluvial and alluvial in nature, with concentrations in A and B soil horizons (2–4 m thick), as evidenced from geochemical data available on the NGDR portal.
- k. The agency informed the committee that, based on multi-element anomalies, geological units, and structural trends, a proposal for G-4 stage exploration has been submitted, involving large-scale mapping (1:12500), stream sediment/soil and bedrock sampling, geophysical studies, and pitting/trenching for resource assessment.
- l. The committee reviewed the proposal and observed that about 10 sq. km of the area overlaps with the State DGM block as well as with an NMEDT-approved G4 stage investigation of UEIPL. The committee advised the agency to modify the proposed area by excluding overlapping portions and buffer zones, revise the project title accordingly, and include new potential areas in lieu of the excluded region. It was further suggested to compile and analyze all previous exploration data by GSI, focus on identifying source rocks for primary mineralization, and undertake intensive work in gap areas where sufficient data is lacking.
- m. The agency modified the area, included new potential areas and presented in the meeting.
- n. The committee agreed for recommendation of proposal to PSC, NMEDT.

Sl. No.	Agency	Brief Comments
1.	GSI	The area is overlapping with GSI's previous works of FS: 1978-82
2.	MECL	No overlapping with MECL explored block and ongoing blocks.
3.	AMD	NA
4.	State DMG/DGM/CGM	In the year 1972-73 "The Investigation of Lepidolite in Mundval-Govindpal area" and 1975-78 "Geochemical prospecting for Tin in Govindpal-Chitalnar area has been done by DGM Chhattisgarh. (Details enclosed) In the proposed area there is one ongoing project of DGM Chhattisgarh for the field season 2025-26 "Reconnaissance survey for Lepidolite and other associated mineral with Pegmatite".

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		The NPEAs Projects "Reconnaissance survey for Lithium, Niobium, Tantalum, Titanium and REE of UEIPL is overlapping with the proposed block." (Details enclosed) On the basis of Baseline/Exploration data the proposed area is feasible for Tin and Lithium minerals. There is no QL/ML/CL sanctioned in the proposed area.
5.	NMEDT	There are no ongoing NMEDT-funded projects in and around the proposed block.

Recommendations of TCC-1:

The committee recommended the proposal titled "Reconnaissance Survey (G4) for Rare Metals in and around Mundwal-Puspal-Marjum areas, Sukhma, Baster and Dakshin Baster Dantewada Districts, Chhattisgarh" for approval of PSC, NMEDT with an estimated cost of Rs. 284.93 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 2A & 2B. The item will be reviewed after 3, 6 and 9 months.

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Reconnaissance Survey (G4) for Rare Metals in and around Mundwal-Puspal-Marjum areas, Sukhma, Baster and Dakshin Baster Dantewada Districts, Chhattisgarh (Area: 125 sq. km); Scout Drilling 500 m. Time Duration: 12 months. Review after 3, 6 and 9 months

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC Item No.*	Rates as per SoC* (a)	Qty. (b)	Total Amount (Rs) (a*b)	
1	Geological mapping and sampling						
1a	Geological mapping 1:12,500	Per sq. km	1.1	18300	125	2287500	
1c	Charges for one sampler per day	per day	1.2.1b	7850	124	973400	For all samples
1d	Labour charges	per day	5.8	541	496	268336	
	SUB- TOTAL 1					3529236	
2	Ground Geophysical Survey						
2a	Magnetic Surveys	per station	3.2a	1800	0	0	To be considered after 3 months (1st review). Who will be carrying out GP Survey, agency has to give the details
	SUB- TOTAL 2					0	
3	Pitting and trenching						
3a	Pits/trenching	per cu. m.	2.1.3	6662	600	3997200	
3d	Charges for Geologist per day in field (without labour)	per day	1.2.1a	14500	60	870000	
	Labour charges	per day	5.8	541	120	64920	including sampling, trench logging and core logging
	SUB- TOTAL 3					4932120	
	SUB TOTAL 1 to 3					8461356	

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4	Drilling Activity (Scout Drilling) (In House) (5BH tentative)						Depending upon results, quantity may vary
	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	500	5000000	
	Land Compensation	Per Borehole	5.6	30000	5	150000	
	Concrete Pillar Construction	Per Borehole	2.2.7	2000	5	10000	
	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	5	50000	
	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding, construction of Approach road and Drill core preservation	Lumpsum	2.2.9 (1)	For Drilling cost less than 50 Lakhs: 25% of the Drilling Cost		1250000	
	Drill Core Preservation	m	5.3	1590	250	397500	250 m core to be preserved; 1 complete BH and remaining from mineralised zones)
	SUB- TOTAL 4					6857500	
5	Laboratory study						
5a.							
5a.i	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS	per sample	4.1.15	7400	700	5180000	ICPMS Including SSS, SS, BRS, PTS, Core samples (200 Core samples)
5a.ii	Check samples for Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element	per sample	4.1.15	7400	70	518000	ICPMS

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	(U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS							
5b.iii	Major oxides (WD XRF)- (oxides+ traces -24 elements)	per sample	4.1.17a	4200	200	840000	XRF major oxides and Trace Elements BRS and Core sample	
5c.iv	Check sample for Major oxides (WD XRF)- (oxides+ traces -24 elements)	per sample	4.1.17a	4200	20	84000	XRF major oxides and Trace Elements	
SUB- TOTAL 5						6622000		
6	Petrological studies							
6a	Preparation of polished thin section of rock	per sample	4.3.2	800	50	40000		
6b	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos digital photo micrographs)	per sample	4.3.4	2800	50	140000		
6c	EPMA Studies per hour	per hour	4.4.1	10500	30	315000		
SUB- TOTAL 6						495000		
7	Geological activities in HQ							
7a	Charges for one Geologist per day at HQ	per day	1.2.1a	10500	45	472500		
SUB- TOTAL 7						472500		
TOTAL 1 to 7						22908356		
Miscellaneous Charges								
8	Preparation of Exploration Proposal	5 hard copies with soft copies	5.1	2% of approved project cost or 5 lakh whichever is lower		458167		
9	Geological Report Preparation	5 hard copies	5.2(iii)	Total cost of the project exceeding ₹150 lakh ₹7.5 lakh		750000		

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		with soft copies				
10	Peer review Charges		As per EC decision		30000	
11	Total Estimated Cost without GST				24146523.12	
12	Provision for GST (18%)				4346374.162	
13	Total Estimated Cost with GST 18%				28492897.28	2.84 Cr.
Note:				In lakhs	284.93 lakhs	
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.					
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.					
3	If any part of the project is outsourced, the amount will be reimbursed as per the Item no. 6 of NMET SoC. In case of excusion of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.					
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.					
5	Any item of work not mentioned above shall be added as per SoC.					

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Time Schedule / Action Plan for Reconnaissance Survey (G4) for Rare Metals in and around Mundwal-Puspal-Marjum areas, Sukhma, Baster and Dakshin Baster Dantewada Districts, Chhattisgarh

S.No.	ACTIVITIES		1	2	3	First review	4	5	6	Second review	7	8	9	Third review	10	11	12			
1	Camp Setting	Month																		
2	Geological Mapping	Month																		
3	Sampling	Month																		
4	Pitting/Trenching	Month																		
5	Drilling	month																		
6	Laboratory Studies	Month																		
7	Camp Winding	Month																		
8	Report Writing with Peer Review	Month																		

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Agenda 91.1.4. Reconnaissance Survey (G4) of iron ore in Morli and Rani Metta area of Gadchiroli District, Maharashtra
[Implementing Agency: M/s. Gemcokati Exploration Pvt. Ltd.]

- a. The proposed block falls in Survey of India Toposheet No. 65A/06 and is a part of Western Bastar Craton which hosts numerous Iron Ore deposits along three distinct parallel arcuate ridges starting from Surjagad Hill range in the north (65A/06) to Bhamragad Hill Range (65A/11) in the southern most part.
- b. GSI in their comments confirmed that there is no overlap with the proposed area.
- c. The proposal was earlier discussed in the 74th and 82nd TCC-I meetings; however, it could not be processed due to non-availability of comments from DMG, Maharashtra. It was further noted that DMG, Maharashtra has recently furnished its comments as below:

The block presently proposed by M/s Gemcokati Exploration Limited overlaps with the Surjagarh iron ore area investigated by DGM during the field season 1962-63. Systematic geological mapping covering approximately 80 sq. miles was carried out on 1" = 1 mile scale in Sironcha Taluka (erstwhile Chanda District).

Based on detailed geological traverses, lithological delineation, structural interpretation and systematic surface sampling, the iron ore was assessed to be of high grade, with Fe content ranging from 60% to 69% and low alumina, silica and phosphorus. Preliminary reserve estimation assessed approximately 50.70 million tonnes of in situ ore and 4.18 million tonnes of float ore, aggregating to about \$4.88 million tonnes.

The exploration activities undertaken are equivalent to G4 level (Reconnaissance Stage) exploration under prevailing norms. The commodity explored is Iron Ore, which is the same as that proposed by M/s Gemcokati Exploration Limited. It is further observed that the proposal submitted by the agency does not include any drilling or borehole programme.

In view of the above the proposed work overlaps with the work already carried out by DGM in the same commodity hence not recommended.

- d. The committee reviewed the proposal and observed that iron ore bands in the area have already been well delineated by previous studies, while the proposed G-4 stage investigation largely covers granite and granite gneiss. Accordingly, the committee suggested undertaking G-3 stage exploration focusing on the already delineated iron ore bands.
- e. The agency informed that the DGM report is not available in the public domain; therefore, it was advised to approach DMG, Maharashtra to obtain the report. The agency further stated that additional time is required to assess the feasibility of undertaking G-3 stage exploration after field visits and discussions with DMG, Maharashtra, and to submit a revised proposal in the next TCC meeting.
- f. The committee, after deliberation, deferred the proposal and advised the agency to submit the revised proposal in the next TCC-I meeting.

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Sl. No.	Agency	Brief Comments
1.	GSI	The proposed area does not overlap with GSI block.
2.	MECL	No overlapping with MECL explored block and ongoing blocks.
3.	AMD	NA
4.	State DMG/DGM/CGM	Detailed above. In view of the above the proposed work overlaps with the work already carried out by DGM in the same commodity hence not recommended.

Recommendations of TCC-1:

The committee deferred the proposal and advised the agency to submit the revised proposal for preliminary exploration (G3) in the next TCC-I meeting.

Agenda 91.1.5. Preliminary Exploration (G3) for Graphite and associated Minerals in Anchalbadi-Tandipur Block, Raygada District, Odisha [Implementing Agency: M/s. Eartnenviro Lab Pvt. Ltd.]

- a. The proposed area falls in parts of Survey of India Toposheet No. 65M/7 and forms part of the Eastern Ghats Supergroup of Archaean age, comprising litho-units such as khondalite suite, charnockite, quartzo-feldspathic gneiss, and pegmatite.
 - b. It was further noted that the area was previously explored by DoMG, Odisha at G-4 stage during field season 2000–01, involving large-scale mapping (1:12500), wherein seven graphitic bodies were delineated, including one in the Tandipur Block, with fixed carbon (FC) content ranging from 2.67% to 22.11%.
 - c. The agency informed the committee that the present proposal is an upgradation of the earlier G-4 level exploration carried out by DGM, Odisha.
 - d. The committee noted that the proposal was discussed in the 81st TCC-I meeting, wherein in-principle approval was accorded. The agency was advised to undertake a field visit to assess forest cover, local issues, and cultural features affecting exploration, and to submit the DPR in the subsequent TCC meeting, with both blocks to be included in a single project.
 - e. The agency informed that a field visit has been carried out, during which one graphitic band of 10–15 m width was identified. Two samples from each block were collected and analyzed, indicating FC content ranging from 2.31% to 8.50%.
 - f. Based on the findings, the agency proposed G-3 stage exploration in Achalpur and Tandipur blocks, involving detailed geological mapping (1:2000 scale), sampling, ground geophysical surveys, pitting/trenching, beneficiation and drilling.
- 18.03.26 committee reviewed the proposal and reiterated that both blocks should be taken up as a single project. It further suggested undertaking initial drilling up to 30 m vertical depth at 200 m strike intervals.

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- h. The committee also advised the agency to provide details of the geophysical agency proposed to be engaged, including their capabilities and infrastructure, for evaluation.

Sl. No.	Agency	Brief Comments
1.	GSI	GSI in comments stated that the .kml file and coordinate in proposal is not matching, hence overlapping could not be confirmed. The .kml file provided by agency falls within GSI's G4 explored block and the present proposal is for G3 exploration.
2.	MECL	No overlapping with MECL explored block and ongoing blocks.
3.	AMD	NA
4.	State DMG/DGM/CGM	The block is not overlapping with any PL/ML. The G-4 mapping does not indicate the geospatial disposition of ore body. The block may be explored at G-4 level with probing of mineralized zone by Geophysical prospecting and scout drilling.

Recommendations of TCC-1:

The committee recommended the proposal titled "Preliminary Exploration (G3) for Graphite in Anchalbadi- Tandipur Block, District: Raygada, Odisha" for approval of PSC, NMEDT with an estimated cost of Rs. 325.06 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 3A & 3B. The item will be reviewed after 3, 6 and 9 months.

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Preliminary Exploration (G3) for Graphite in Anchalbadi- Tandipur Block, District: Raygada, Odisha. [Total area-4.3 sq km, Total Drilling: 1200m; Nos. of Boreholes-24; Borehole depth range- Average 50 m; Schedule time line- 12 months; Review after 3, 6 and 9 months]

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI	Rates as per SoC	Qty.	Total Amount (Rs)	
Phase-I							
A	Geological Mapping, other Geological Work and Topographical Survey (1: 2000)	Sq. km	1.1	18300	4.3	78,690	
i	Charges for one Geologist - HQ	Man days	1.2.1a	10500	30	3,15,000	
ii	Charges for two Geologist- Field	Man days	1.2.1a	14500	135	19,57,500	
iii	Labour charges	Man days	5.8	541	270	1,46,070	As per Labour commission
iv	Charges for one Sampler per day for BRS, Pits, Trenches & BHS sample Preparation	Man days	1.2.1b	7,850	65	5,10,250	
v	Labour Charges (4 Nos)	Man days	5.8	541	260	1,40,660	
vi	Drone Topographic Survey	Man days	7b	70000	4.3	3,01,000	
viii	Demarcation of Block Boundary point by DGPS including Labour deployed for work	Per Point of Observation	1.3.2	24000	35	8,40,000	24+11
	Sub Total- A					42,89,170	
B	Pitting/Trenching						
i	Excavation of Pit between 2.0m to 5.0 m with backfilling	Cu m	2.1.3	6,662	0	0	

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ii	Trenching(1m x 1m x 8m)	Cu m	2.1.2	4,125	200	16,50,000	
	Sub Total B					16,50,000	
C	Geophysical Survey						
i	IP,Self Potential, Resistivity and Magnetic (2 Lines of 2.1 sq. km)	Line Km(8-10)	3.4b	1448693	2	28,97,386	1000m x1000m grid
ii	Geophysicist Charge for Monitoring		3.19b	14500	0	0	
	Sub Total- C					28,97,386	
D	DRILLING (out Sourced)						
i	Drilling HQ Size (Hard Rock)	per m	2.2.1.1d	10,000	1200	1,20,00,000	900+350
ii	Land compensesation	per Bore Hole	5.6	30,000	24	7,20,000	17+7
iii	Concrete Pillar Construction	per Bore Hole	2.2.7	2,000	24	48,000	17+7
iv	Borehole plugging by cement (HQ)	Lump sum per Borehole	2.2.8	10,000	24	2,40,000	17+7
v	Drill Core Preservation	Per m	5.3	1,590	625	9,93,750	450+175
	Sub Total- D					1,40,01,750	
D	Total - A to D					2,28,38,306	
E	LABORATORY STUDIES(Primary & Check samples)						
1a	Primary Samples(Pitting/Trench/BRS/Core)for Proximate Analysis for Graphite(Pr)	No.	4.1.18	3614	450	1626300	BRS-50,TRS-100, BH-300
1b	Proximate Analysis for Graphite(Ch) External check samples from NABL Lab	No.	4.1.18	3614	45	162630	10%
2a	Whole rock analysis (Oxide and trace) by XRF	No.	4.1.17a	4200	20	84000	
2b	Whole rock analysis(Ch) (Oxide and trace) by XRF	No.	4.1.17a	4200	2	8400	

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3	Physical & Petrographic studies						
i	Preparation of polished thin sections	No.	4.3.2	800	20	16000	
ii	Complete Petrographic/Ore Microscopic study/ Mineragraphic Report of Rock Sample	No.	4.3.4	2800	20	56000	
iii	Determination of Bulk Density	PerSample	4.8.3	2500	5	12500	
iv	Raman Spectroscopic Study/MCT	per Hour	4.5.1	2700	10	27000	
	Sub Total - E					1992830	
	Total-A+B+C+D+E						2,48,31,136
F	OTHER STUDIES						
G	Benifiation Study (Lab Scale)	Per Sample	4.7.2	500000	0	0	Actual as per IBM. May be considered after review
H	Total Outsourced Component					1,20,00,000	
I	Technical Supervision cost for Outsourced Components		6	In case of outsourcing of work, the Technical Supervision cost shall be 10% of the sum of all the outsourced components with a maximum ceiling of ₹ 20 lakh		12,00,000	In case of Out sourcing of work, the technical supervision cost shall be 10% of the sum of the Out source work components with maxm ceiling of 20 Lakhs
J	Tendering Cost		5.9	2% of the approved project cost or 5 Lakh whichever is lower will be paid one time		2,40,000	1800000

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K	Total Cost					2,62,71,136	
L	Preparation of Exploration Proposal	1	5.1	2% of approved project cost or 5 lakh whichever is lower		496623	
M	Geological Report Preparation(5Hard copies with a soft copy)	1	5.2(iii)	Total cost of Project exceeding 150 Lakh :7.5 Lakh	1	750000	
N	Peer review Charges		As per EC decision	10000	3	30,000	
O	Project Cost without GST					2,75,47,759	
P	Provision for GST (18%)					49,58,597	
Q	Total Estimated Cost with GST					3,25,06,355	
R	Rs. In Lakhs					325.06	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						

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Time Schedule/Action Plan for Preliminary Exploration (G3) for Graphite in Anchalbadi- Tandipur Block, District: Raygada, Odisha.

S.No	Activity Plan	1	2	3		4	5	6		7	8	9		10	11	12			
1	Topographical Survey	■	■	■	REVIEW-1				REVIEW-2				REVIEW-3						
2	Lithological Mapping(1:4000 scale) and Sampling	■	■																
3	Pitting, Trenching		■	■															
4	Sample Preparation for chemical anaysis		■	■			■												
First Review by TCC on progress and outcome																			
5	Geophysical Survey							■		■									
Second Review by TCC on progress and outcome																			
6	Exploratory Drilling, Borehole collar survey											■		■					
7	Logging, Sampling, Bulk Density determination											■		■	■				
8	Chemical Analysis													■	■				
9	Mineragraphic, XRD, Trace Element Study and other studies														■		■		
Final Review by TCC on progress and outcome																			
10	Data Synthesis and draft report preparation														■				
11	Peer Review														■				
12	Final Report Preparation and Submission														■	■			

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Agenda 91.1.6. Preliminary Exploration (G3) for manganese and associated minerals in Sarishabasa block, District: Jhargram, West Bengal [Implementing Agency: MMPL]

- a. The committee noted that the proposed block falls in Survey of India Toposheet Nos. 73J/10 and 73J/14 and comprises metamorphosed volcano-sedimentary sequences of the Singhbhum Group along with mafic-ultramafic rocks of the Dalma Volcanics.
- b. It was further noted that the area consists of metabasalt, meta-ultramafite, and minor acidic volcanics, along with metasediments such as metapelites (phyllite, carbonaceous phyllite, chlorite schist, mica schist), quartzite, calc-silicate rocks, and iron formations. Occurrences of base metals, noble metals, and atomic minerals are reported within shear zones and along the fringe of Kuilapal Granite.
- c. The committee also noted that earlier investigations (1961–62) reported manganese occurrences as encrustations, thin veins, lenses, pockets, and float bodies, generally of limited thickness and occurring parallel or occasionally across the bedding.
- d. It was further noted that G4 stage reconnaissance (2020–21) indicated limited manganese potential, with only a few samples exceeding 10% Mn.
- e. A total of six bedrock samples showed Mn values ranging from 10.53% to 25.96%, with higher concentrations associated with phyllite and brecciated quartzite of the Dalbhum Formation.
- f. The agency proposed G3 stage exploration to assess manganese and associated mineralization under UNFC (333 category).
- g. The committee reviewed the proposal and observed that about 70% of the area is currently being re-investigated under an ongoing GSI project (FS: 2025–26), and outcomes will be evaluated after submission of the final report.
- h. In view of the ongoing work, the committee advised that the agency should refer to the GSI report upon its completion and, based on its findings, may subsequently propose G3 stage exploration.

Sl. No.	Agency	Brief Comments
1.	GSI	The proposed Sarishabasa G3 block is having 58% overlap with GSI G4 stage multimetal investigation block carried out during FS 2024-25 titled "Reconnaissance survey for Chromium and associated mineralisation in and around Jamdani, Chaukial Pahar and Chirakuti areas of Jhargram district, West Bengal". Based on the reported Mn values one G4 item in FS 2025-26 in and around Simulpal, Gajpathar and Dongardihi areas of Jhargram District, West Bengal has been taken up. The proposed Sarishabasa G3 block is having 100% overlap with GSI G4 stage gold investigation block carried out during FS 2022-23 titled "Reconnaissance Survey for gold mineralization in and around

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		Maisamura and Shrinathpur area, Bankura and Jhargram districts, West Bengal. Based on the reported values from previous exploration works conducted by the GSI and the approved items, the proposed area is considered feasible for Manganese exploration, apart from the area of approved GSI projects.
2.	MECL	No overlapping with MECL explored block and ongoing blocks
3.	AMD	AMD has not carried out worked any exploration / reconnaissance project in the proposed block. There is no ongoing exploration reconnaissance project. AMD does not have baseline exploration data on the commodities mentioned
4.	State DMG/DGM/CGM	H. Sen of DMM, West Bengal carried out Reconnaissance survey in 1971: Summary: Psilomelane, pyrolusite, and manganite ores were observed west of Belpahari (TS Map Sheets: 73 J/10 and 73 J/14). Shri K.L. Das obtained a Prospecting Licence (PL) over an area of 8,709.12 ha covering 54 mouzas within Binpur IP.S. Subsequently, Shri K. L. Das obtained a Mining Lease (ML) over 9 mouzas for a period of 20 years form of M/s Midnapore Zamindari Co. Ltd It seems Manganese Ore mainly occur as fracture filling of coloform mass intergranular to the silicate grains. The host rocks are mainly quartzite and phyllite. The deposit of the metal is yet to be proved. So, highly recommended. At present, as per records available in this office, there are no existing. Composite License or Mining Lease for cither Major or Minor minerals inside the proposed block.
5.	NMEDT	There are no ongoing NMEDT-funded projects in and around the proposed block.

Recommendations of TCC-1:

The committee deferred the proposal and advised the agency to await finalization of the GSI report, and thereafter submit a revised proposal after due consultation of the report.

**Agenda 91.1.7. Reconnaissance Survey (G4) for Graphite in Kandegaon area, Kalahandi District, Odisha
[Implementing Agency: MMPL]**

- a. The proposed block falls in Survey of India Toposheet Nos. 64P/11 and 64P/12 and comprises litho-units of the Eastern Ghats Mobile Belt (EGMB), including charnockite, granite gneiss, khondalite, leptynite, and calc-silicate gneiss.

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- b. It was noted that earlier investigations by GSI (FS: 1982–83) identified graphite mineralization in Turekela and Bakbera areas, confined to sheared and hydrothermally altered migmatite zones.
- c. In Turekela, graphite-rich schists and pegmatites occur in two mineralized zones with higher grades at fold crests, while in Bakbera, two continuous bands host ~19,993 tonnes of graphite with 5.33–6.9% FC.
- d. Further investigations (FS: 1990–93) across Bolangir, Kalahandi, and Nuapada districts examined 88 mines and estimated reserves of 0.64 million tonnes and 8,620 tonnes respectively.
- e. OMC carried out G4 stage exploration in Lamer–Panga Block involving large-scale mapping, geophysical surveys, drilling, and sampling, leading to significant data generation.
- f. Based on this, 2.034 million tonnes of graphite resources with an average of 4.67% FC were inferred under UNFC 334 category.
- g. Subsequently, G3 stage exploration (FS: 2023–24) in Lamer–Panga Block-B involved detailed mapping, geophysical surveys, drilling, and sampling.
- h. A total resource of 1.304 million tonnes with average 4.72% FC (2% cutoff) was estimated under UNFC 333 category.
- i. The agency proposed G4 stage exploration in the area involving geological mapping (1:12,500), geophysical surveys, pitting/trenching, and scout drilling up to 30 m depth.
- j. It was informed that field visits were conducted and 4 samples analyzed, showing FC values ranging from 3.06% to 17.10%.
- k. The committee reviewed the proposal and observed that a major part of the area has already been explored by GSI and OMC, and that Cluster-66 within the proposed block has been allotted to MECL by the State Government. Accordingly, the committee advised the agency to revisit the proposal, consider G3 stage exploration after consulting existing G4 reports of GSI and OMC, and submit a revised proposal in the next TCC meeting.

Sl. No.	Agency	Brief Comments
1.	GSI	1. Cluster-66 lies within the proposed block that has already been allotted to MECL by the State Level Committee. 2. G4 stage investigation for graphite has already been carried out by GSI in the proposed block. 3. At present, no exploration or reconnaissance project related to graphite or any other mineral commodity is being undertaken by GSI in the proposed area. The proposed block is not recommended for any further G4-stage investigation.
2.	MECL	No overlapping with MECL explored block and ongoing blocks
3.	AMD	AMD has not carried out worked any exploration / reconnaissance project in the proposed block. There is no ongoing exploration reconnaissance project. AMD

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		does not have baseline exploration data on the commodities mentioned
4.	State DMG/DGM/CGM	NA
5.	NMEDT	There are no ongoing NMEDT-funded projects in and around the proposed block.

Recommendations of TCC-1:

The committee deferred the proposal and advised the agency to consult the G-4 stage exploration report of GSI, SU-Odisha and incorporate the findings. The agency was further advised to submit a revised proposal for G-3 stage exploration, if recommended in the GSI report, in the next TCC-I meeting.

**Agenda 91.1.8. Reconnaissance Survey (G4) for Graphite in Jhiripani area, Kalahandi & Kandhamal District, Odisha
[Implementing Agency: MMPL]**

- a. The committee noted that the proposed block falls in Survey of India Toposheet Nos. 64P/11 and 64P/12 and comprises litho-units of the Eastern Ghats Mobile Belt (EGMB), including charnockite, granite gneiss, khondalite, leptynite, and calc-silicate gneiss.
- b. It was noted that GSI carried out investigations (FS: 1982–83) in Turekela and Bakbera areas, where graphite mineralization is confined to sheared and hydrothermally altered migmatite zones and is affected by erosion.
- c. In Turekela, two mineralized zones host graphite-rich schists and pegmatites with higher grades at fold crests, while in Bakbera, two continuous bands contain about 19,993 tonnes of graphite (5.33–6.9% FC).
- d. Further investigations (FS: 1990–93) in Bolangir, Kalahandi, and Nuapada districts examined 88 mines and estimated reserves of 0.64 million tonnes and 8,620 tonnes respectively.
- e. OMC carried out G4 stage exploration in Lamer–Panga Block, involving large-scale mapping, geophysical surveys, drilling, and sampling over 49.084 sq. km.
- f. Based on these studies, 2.034 million tonnes of graphite resources with an average grade of 4.67% FC were inferred under UNFC 334 category.
- g. Subsequently, G3 stage exploration (FS: 2023–24) in Lamer–Panga Block-B involved detailed mapping, geophysical surveys, drilling, and sampling over 12.994 sq. km.
- h. A total resource of 1.304 million tonnes with an average grade of 4.72% FC (2% cutoff) was estimated under UNFC 333 category.
- i. The agency proposed G4 stage exploration in the area involving geological mapping (1:12,500 scale), geophysical surveys, pitting/trenching, and scout drilling up to 30 m depth.
- j. It was informed that field visits were conducted and 3 samples analyzed, indicating FC values ranging from 1.95% to 14.24%.
- k. The committee reviewed the proposal and observed that nearly 60% of the proposed area has already been explored by GSI and OMC at G4 and G3 stages,

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with only the southern part remaining unexplored. Accordingly, the committee advised the agency to revisit the proposal, consider G3 stage exploration after consulting existing reports of GSI and OMC, and submit a revised proposal in the next TCC meeting.

Sl. No.	Agency	Brief Comments
1.	GSI	The proposed block overlaps with an area which has been explored at G4 stage investigation by GSI. It also overlaps with the Lamer-Panga block which has been explored at G4 stage by Odisha Mining Corporation Ltd.
2.	MECL	No overlapping with MECL explored block and ongoing blocks
3.	AMD	AMD has not carried out worked any exploration / reconnaissance project in the proposed block. There is no ongoing exploration reconnaissance project. AMD does not have baseline exploration data on the commodities mentioned
4.	State DMG/DGM/CGM	Not received.
5.	NMEDT	There are no ongoing NMEDT-funded projects in and around the proposed block.

Recommendations of TCC-1:

The committee deferred the proposal and advised the agency to consult the G-4 stage exploration report of GSI, SU-Odisha and incorporate the findings. The agency was further advised to submit a revised proposal for G-3 stage exploration in the next TCC meeting.

**Agenda 91.1.9. Preliminary exploration (G3) for titanium (Ti) and vanadium (V) in Kalapati block, Purulia district, West Bengal
[Implementing Agency: MMPL]**

- a. The proposed block falls in Survey of India Toposheet No. 73J/09 and comprises litho-units such as mica schist, gabbro, pyroxenite, melano-gabbro, and ultrabasic sills (peridotite?) of the Chaibasa Formation and Dalma Volcanics of the Singhbhum Mobile Belt.
- b. It was noted that systematic geological mapping of the area was carried out by Dunn (1929), Dunn & De (1942), Chandra (1944), and Singh et al. (1970).
- c. The committee further noted that investigations for copper in the Tamakhun–Thakurdongri area (South Putulia Shear Zone) were carried out during 1991–92 to 1993–94 and concluded in 1995.
- d. It was also noted that GSI studies (FS: 2010–12 and 2012–13) reported high niobium values (up to 1065 ppm) from the Sushina area, along with occurrences of REE (La, Ce) and Nb mineralization.
- e. Specialized thematic mapping (FS: 2021–22) in the Sushina hill area reported Nb values up to 454 ppm.
- f. It was noted that G3 stage investigation for Ti, V, and P in Katim Block (FS: 2022–23) resulted in significant resource estimation.

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- g. Resources of 83.841 and 52.633 million tonnes at 2% and 4% TiO₂ cut-off respectively were estimated, along with inferred vanadium resources of 29.116 million tonnes at an average grade of 535.18 ppm V.
- h. The committee noted that G4 stage reconnaissance for Nb, REE, and rare metals in and around Sushina area was carried out during FS: 2023–24.
- i. The agency proposed G3 stage exploration for Ti and V in the Kalapati Block, based on similar geological settings.
- j. The proposed work includes detailed geological mapping (1:2,000 scale), geophysical surveys (gravity and magnetic), and exploratory drilling up to second level at 400 m strike interval to investigate mineralization up to 60 m depth.
- k. The agency informed that 22 samples collected from ultrabasic sills showed Ti values ranging from 25,492 ppm to 331,966 ppm, and 16 samples showed encouraging vanadium values (>500 ppm).
- l. The committee reviewed the proposal and observed that the mineralogical phase of Ti and V has not been established. It was therefore advised to carry out petrological studies to understand mineralogical aspects and present the findings in the next TCC-I meeting.

Sl. No.	Agency	Brief Comments
1.	GSI	76 %overlap with GSI's G4 stage Gold investigation block carried out during FS 2016-17. The block has already been handed over to DMM, West Bengal as GM. The proposed Kalapati G-3 block is having 26% overlap with GSI G4 stage Gold investigation block carried out during FS 2023-24
2.	MECL	No overlapping with MECL explored block and ongoing blocks
3.	AMD	AMD has not carried out worked any exploration / reconnaissance project in the proposed block. There is no ongoing exploration reconnaissance project. AMD does not have baseline exploration data on the commodities mentioned
4.	State DMG/DGM/CGM	Comments awaited.
5.	NMEDT	There are no ongoing NMEDT-funded projects overlapping with the proposed block.

Recommendations of TCC-1:

The committee deferred the proposal as the agency did not provide details regarding the mineral phases of Ti and V mineralization and their petrographic characteristics. The agency was advised to submit a revised proposal incorporating details on genetic aspects and mineral phases, and to present the same in the next TCC-I meeting.

Agenda 91.1.10. Reconnaissance survey (G4) for Ni and Sr in Chhappar areas, Chhatarpur District, Madhya Pradesh

[Implementing Agency: MMPL]

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- a. The proposed block falls in Survey of India Toposheet Nos. 54P/09 and 54P/10 and comprises litho-units of the Bundelkhand Granitoid Complex (BGC), including granitoids, quartz reefs, alkaline dykes, basaltic and dolerite dykes.
- b. It was noted that earlier G4 stage reconnaissance (FS: 2018–19) for rare metals and REE in the Basata–Kunwarpura area reported average Σ REE values of ~827 ppm in alkaline dykes, with significant LREE enrichment.
- c. Further reconnaissance (FS: 2021–22) in the Chauka–Para area indicated Σ REE values in stream sediment/soil samples ranging from ~166.64 ppm to 1107 ppm, with higher concentrations in the western part.
- d. The agency proposed G4 stage exploration involving large-scale mapping (1:12,500) and delineation of mafic, ultramafic, kimberlite, alkaline, syenite, and pegmatite bodies.
- e. The committee reviewed the proposal and observed that the area has already been covered at G4 stage and overlaps with an approved NMET block. Accordingly, the committee advised the agency to undertake detailed sampling to identify promising zones and subsequently propose G3 stage exploration.

Sl. No.	Agency	Brief Comments
1.	GSI	The Proposed block Chhapar Atrar block is fully overlapping with the recently explored G4 Stage blocks of GSI.
2.	MECL	The proposed Block of MMPL is overlapped with approved Atrar Block for rare metal exploration by MECL approved during 4 th PSC
3.	AMD	AMD has carried out G4 - G3 stage(s) of exploration for uranium in and around the proposed block in different phases. Samples from the explored area analysed up to 0.024% U ₃ O ₈ . AMD is carrying out exploration G4 stage project for uranium. AMD does not have baseline exploration data on the commodities mentioned. The proposed block partially overlaps with the already explored block of AMD for Uranium. In view of the above, the block is not recommended.
4.	State DMG/DGM/CGM	Awaited.
5.	NMEDT	The proposed Block of MMPL is overlapped with approved Atrar Block for rare metal exploration of MECL.

Recommendations of TCC-1:

The committee deferred the proposal as the proposed block has already been covered at G-4 stage and overlaps with an approved NMEDT funded block which is currently under execution.

**Agenda 91.1.11. Reconnaissance Survey (G4 Stage) for Graphite in Laxmipur-Nangalpalli Areas, Rayagada District, Odisha
[Implementing Agency: MMPL]**

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- a. The proposed block falls in Survey of India Toposheet No. 65M/11 and comprises litho-units of the Eastern Ghats Mobile Belt (EGMB), including charnockite, granite gneiss, khondalite, leptynite, and calc-silicate gneiss.
- b. It was noted that earlier mineral reconnaissance (FS: 1968–69) identified a significant graphite occurrence near Karalaghati village (south of Parlapanka village).
- c. The committee further noted that G4 stage investigation by DoMG, Odisha (FS: 2002–03) in the Bhatpur–Bissam Cuttack tract identified three graphite occurrences with FC values ranging from 8.97% to 55.44%.
- d. It was also noted that six graphite bands were delineated in the adjacent Kanapulisi Block by MMPL Pvt. Ltd., with thickness ranging from 0.68 m to 4.71 m and average FC values between 2.24% and 5.98%, estimating a resource of 0.123 million tonnes at 4.50% FC.
- e. The agency proposed G4 stage exploration involving large-scale mapping (1:12500), geophysical surveys (SP), and scout drilling.
- f. The committee reviewed the proposal and observed that the area has already been explored at G4 stage by DoMG, Odisha and partly overlaps with an NMEDT-approved block under execution. The committee advised the agency to consult the DoMG report to identify potential areas and subsequently propose a G3 stage exploration.

Sl. No.	Agency	Brief Comments
1.	GSI	The proposed block overlaps with Cluster 22. The entire block has already been explored for graphite by DoMG, Odisha at G4 stage.
2.	MECL	Awaited
3.	AMD	AMD has not carried out worked any exploration / reconnaissance project in the proposed block. There is no ongoing exploration reconnaissance project. AMD does not have baseline exploration data of the commodities mentioned
4.	State DMG/DGM/CGM	Awaited
5.	NMEDT	Proposed block is partially overlapping with the NMEDT funded block.

Recommendations of TCC-1:

The committee deferred the proposal as the proposed area has already been covered at G-4 stage by DoMG, Odisha and partly overlaps with an NMEDT-approved block under execution. The committee further advised the agency to consult the DoMG report to identify potential areas and propose G-3 stage exploration accordingly.

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Agenda 91.1.12. Preliminary Exploration (G3) for Copper, nickel, cobalt and PGE mineralization in Dewal Block, District: Dungarpur, Rajasthan [Implementing Agency: Vardan Environet LLP]

- a. The proposed block falls in Survey of India Toposheet No. 46E/09 and comprises litho-units of the Aravalli Supergroup, including dolomite, quartzite, and phyllite, along with post-Aravalli intrusives of serpentinised ultramafics (Rakhabdev ultramafics).
- b. It was noted that large-scale geological mapping (1:12,500 scale) carried out during FS: 2017–18 identified surface manifestations of copper mineralization such as malachite staining, gossans, mine dumps, and ferruginous quartzite, associated with old workings near Dewal, Khanmine, Balewari Dewal, and Methali areas.
- c. The committee further noted that mineralization in the Dewal area is divided into eastern and western parts separated by a barren zone, while some old workings (Khanmine) were not traceable due to mining activities.
- d. Analytical results of bedrock samples indicated Cu values ranging from 215 ppm to 0.49% and Ni from 110 ppm to 0.23%, with a mineralized zone of ~250 m strike length and ~50 m width.
- e. In the Methali prospect, Cu values ranged from 120 ppm to 1.07%, with associated Ni (up to 885 ppm), Zn (up to 380 ppm), and Au values up to 4.08 ppm, indicating significant mineralization.
- f. The agency proposed G3 stage exploration involving detailed geological mapping (1:5,000), ground geophysical surveys, and grid pattern drilling.
- g. It was informed that the State Government has allotted 0.99 sq. km area, while a larger area of 5 sq. km has been delineated for exploration. The area falls under Aravalli FSI, and exploration permission is subject to court decisions. The proposal also overlaps with an in-principle project submitted by Environgreen India Pvt. Ltd.
- h. The committee reviewed the proposal and observed that the area falls under FSI Aravalli, and decisions regarding exploration activities will be subject to the outcome of the Hon'ble Supreme Court.

Sl. No.	Agency	Brief Comments
1.	GSI	NA
2.	MECL	MECL has not carried out exploration in the proposed block.
3.	AMD	There is no ongoing exploration / reconnaissance project.
4.	State DMG/DGM/CGM	It was informed that the block has been allotted to the Agency by State Government covering an area of 0.99 sq.km. DMG, Rajasthan has informed that the agency has carved out an area of 5 sq.km enveloping the 0.99 sq.km allotted area. DGM, Rajasthan has informed the area can be clubbed to carry out exploration work. It was also informed that the entire area is under FSI Aravalli and exploration permission

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		will be decided based on the Supreme Court decision.
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Recommendations of TCC-1:

The committee deferred the proposal as the proposed block falls under the FSI Aravalli, and the decision regarding exploration activities will be finalized after the Hon'ble Supreme Court's decision.

Agenda 91.2: Review of Ongoing Baseline Data Generation Project

Agenda 91.2.1. Extension of the TS-QC Contract of Heliborne Surveys. [Implementing Agency: GSI]

- a. It was informed that the contract was awarded to M/s IDPeX Private Limited (a consortium comprising M/s Datacode, India; M/s Paterson Grant & Watson Limited (PGWL), Canada; and M/s International Geoscience Services Ltd. (IGS), UK at a total cost of INR 3.38 crore, vide NMET OM dated 20 August 2018, following the recommendation of the Technical Cum Cost Committee (TCC) and approval of the Executive Committee (EC) in its 9th meeting held on 08.08.2018.
- b. A Memorandum of Agreement (MoA) was signed on 18th January, 2019, comprising the following four components:
 - (i) Interpretation of legacy data over an area of 1,35,422 sq. km to identify potential areas for conducting detailed heliborne surveys (INR 1,16,65,251/-);
 - (ii) Preparation and submission of the Detailed Project Report (DPR) (INR 20,06,000/-);
 - (iii) Tender management and signing of MoA with the identified Project Level Agency (PLA) (INR 18,29,000/-); and
 - (iv) Technical Supervision and Quality Control (TS-QC) of the project (INR 89,96,851/-).
- c. The Geological Survey of India (GSI) has informed that work components (i), (ii), and (iii) have been completed. The fourth component, pertaining to Technical Supervision and Quality Control (TS-QC) of heliborne surveys, commenced with the initiation of heliborne surveys in November, 2024, and is currently under progress. This component is linked to the work of the Project Implementing Agency (PIA), M/s Xcalibur McPhar Pvt. Ltd.
- d. The timeline of the PIA has been extended from 1st January, 2026 to 31st March, 2027, as approved in the 3rd meeting of the Project Sanctioning Committee.
- e. It was informed that, since the fourth component of the project is linked to the work of the PIA, extension of the timeline is necessary to ensure successful completion of the pilot project. It was further emphasized that engagement of an outsourced TS-QC consultant is essential for Quality Assurance and Quality Control (QA-QC) of heliborne geophysical surveys, in order to maintain global standards of data quality, as such specialized in-house capability is not available within GSI.
- f. The TS-QC consultant, M/s IDPeX Private Limited, has agreed to extend the timeline, subject to following conditions:
 - i. Cost Escalation due to USD/INR Conversion
 - ii. Reduction in PBG

Component 1: Cost Escalation due to USD/INR Conversion

- i. The TS-QC consultant has completed Milestone-1 and is in the process of completing Milestone-2 and Milestone-3, as per the MoA, up to 28.02.2026.

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- ii. As per the MoA with the TS-QC consultant, these milestones constitute 30% of the total contract value (INR 76,24,450/- excluding GST) of the fourth work component of the TS-QC project.
- iii. Accordingly, the price variation for the remaining 70% of the work component has been calculated as per the table below:

Total Contract value excluding GST @18%	INR 53,37,115/-
Cost for Remaining Work (70%) as per MoA without Cost Escalation Cost for Remaining Work (70%) with Cost Escalation @ 378 per line km.	INR 65,07,837/-
GST @18%	INR 11,71,411/-
Total Cost of remaining work (70%) including GST	INR 76,79,248/-

The total sanctioned cost for the fourth component of the project, including GST, is INR 89,96,851/-. The revised cost for the said component, including GST, is INR 1,03,78,303/-. This results in an increase of INR 13,81,452/- (Rupees Thirteen Lakh Eighty-One Thousand Four Hundred and Fifty-Two only) in the total cost of the fourth component of the project.

Component 2: Reduction in PBG

Due to prolonged delay (exceeding seven years) in the execution of the project, M/s IDPeX Pvt. Ltd. has requested release of the Performance Bank Guarantee (PBG) corresponding to the completed work components, with retention of only 3% (i.e., INR 2,69,906/-) for the remaining fourth work component, as detailed below:

- i. The Bank Guarantee (BG) submitted by the TS-QC consultant is INR 10,13,708/-
- ii. The total cost of the fourth component (TS-QC of heliborne data), without cost escalation, is INR 89,96,851/-.
- iii. Three percent of the fourth work component amounts to INR 2,69,906/-.
- iv. Accordingly, the BG may be reduced to INR 2,69,906/- (without cost escalation).
- v. In the event of approval of cost escalation, the revised BG amount would be INR 3,11,349/-.
- g. GSI has also requested extension of the TS-QC of the project from 01.03.2026 to 31.03.2027, i.e., for a period of 13 months.

Recommendations of TCC-1:

The committee recommended following for approval of PSC of NMEDT:

- i. *Due to escalation in the USD exchange rate and the resultant increase in the cost of the foreign component, the cost of the remaining 70% of the fourth work component (i.e., Milestones 4 to 9) may be revised. This revision would result in an enhancement of INR 13,81,452/- (Rupees Thirteen Lakh Eighty-One Thousand Four Hundred and Fifty-Two only), including GST, in the total cost of the fourth component of the project.*
- ii. *The Performance Bank Guarantee (PBG) may be reduced from INR 10,13,708/- to INR 2,69,906/- (without cost escalation). However, in case*

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the cost escalation is approved, the revised PBG amount would be INR 3,11,349/-.

iii. Extension of timeline of TS-QC Contract of Heliborne Surveys from 01.03.2026 to 31.03.2027, i.e., for a period of 13 months.

Agenda 91.3: Project Evaluation for In-Principle Approval

**Agenda 91.3.1. Preliminary Exploration (G3) for Limestone and Associated Minerals in Nipaniya -Sojanwar-Jamuniya Block-A & Pahrer-Khanpura Block-B, Sagar and Damoh District, Madhya Pradesh.
[Implementing Agency: APC Drilling]**

- a. The proposed block falls in Survey of India Toposheet No. 55M/01 and comprises litho-units of the Vindhyan Supergroup, including calcareous sandstone, shale, and limestone of the Nagod Formation (Bhander Group), along with Maihar sandstone and conglomerate.
- b. It was noted that systematic geological mapping of the area was carried out during FS: 1956–57 and 1960–61.
- c. The committee noted that representative samples of Bhander limestone indicate variable composition, with CaO ranging from 35.01% to 50.13% and significant variation in silica and other oxides.
- d. It was further noted that G4 stage reconnaissance (FS: 2023–24) by GSI in Garhakota–Pathria area covered Nagod and Lameta formations.
- e. In Nagod limestone, CaO ranges from 18.93% to 47.96% (avg. ~37.32%), with considerable variation in SiO₂ and MgO.
- f. In Lameta limestone, CaO ranges from 27.04% to 47.89% (avg. ~37.39%), also showing wide variation in SiO₂ and MgO.
- g. The agency proposed G3 stage exploration involving detailed geological mapping (1:4,000), pitting/trenching, and grid-based drilling up to 60 m depth.
- h. The committee reviewed the proposal and observed significant variation in CaO content and the presence of multiple geological formations within the proposed area. It was therefore advised to undertake a field visit, collect additional samples, delineate a more focused area based on geological suitability, and submit a revised G3 stage proposal supported by analytical data.

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SI. No.	Agency	Brief Comments
1.	GSI	The proposed block is partially overlapping with proposed Umra Block. In the Garhakota and Pathria area, Chemical analyses of bedrock and pitng/trenching samples indicate that both Nagod and Lameta limestones are of good quality. In the combined dataset, CaO content ranges from 21.26% to 29.09%, with an average of 24.16%. SiO ₂ varies between 31.16% and 34.74%, averaging 32.62%, while MgO ranges from 1.92% to 10.51%, with a mean value of 6.71%. Nagod Limestone shows a wider compositional variaton, with CaO content ranging from 18.93% to 47.96% and an average of 37.32%. SiO ₂ content ranges from 8.70% to 34.08%, averaging 17.93%, and MgO varies

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		from 0.84% to 8.23%, with a mean of 2.52%. Lameta Limestone exhibits CaO values between 27.04% and 47.89%, with an average of 37.39%. SiO ₂ content ranges from 8.27% to 45.80%, while MgO varies from 0.44% to 9.19%, averaging 1.96%. The results of the carried out Reconnaissance Survey are encouraging.
2.	MECL	MECL has not carried out exploration in the proposed block.
3.	AMD	NA
4.	State DMG/DGM/CGM	NA
5.	NMEDT	The proposed block is not overlapping with NMEDT funded block.

Recommendations of TCC-1:

The committee deferred the proposal as the CaO content shows wide variation and the proposed area covers multiple geological formations. The agency was advised to undertake a field visit, collect additional samples, narrow down the prospective area based on geological suitability, and submit a revised G-3 stage exploration proposal supported by analytical data.

Agenda 91.3.2. Preliminary Exploration (G3) for Manganese and Associated Minerals in Pathrapeth-Koylari-Dulhapur Block, Dist: Balaghat & Seoni, Madhya Pradesh.

[Implementing Agency: APC Drilling]

- a. The proposed block falls in Survey of India Toposheet No. 55O/10 and comprises litho-units of the Sausar Group, including quartz–muscovite schist/gneiss, marble, calc-silicate/granulite/calc-gneiss, and phyllite, with muscovite schist/gneiss associated with manganese horizons.
- b. It was noted that systematic geological mapping of the Sausar Group in Central India has been carried out by earlier workers including Fermor (1909), West (1936), and Narayanswami et al. (1963).
- c. The committee further noted that major manganese deposits of Central India are associated with Mn-rich metamorphosed sediments of the Sausar Group.
- d. It was also noted that G4 stage reconnaissance surveys in Piparwani, Agri, and Koylari areas identified potential zones for manganese mineralization.
- e. GSI identified three prospective Mn-bearing zones, namely Dulhapur, Pathrapet, and Koylari.
- f. In Dulhapur Zone, Mn mineralization occurs as discontinuous pockets and lenses over ~600 m strike length, with MnO values ranging from 19.32% to 32.33% (avg. 25.28%).
- g. In Pathrapet Zone, mineralization occurs in two detached lenses (50 m and 250–300 m strike lengths), with MnO values ranging from 10.14% to 42.96% (avg. 19.72%).
- h. In Koylari Zone, mineralization extends over ~240 m strike length, with MnO values ranging from 9% to 44.23% (avg. 33.15%).

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- i. The agency proposed G3 stage exploration involving detailed geological mapping (1:4,000), pitting/trenching, and drilling at 200 m strike intervals up to 60 m depth.
- j. The committee reviewed the proposal and observed that about 18 sq. km in the south-western part overlaps with an NMEDT-approved block, and several manganese mining leases exist in the northern part of the area.
- k. The committee advised the agency to verify the reserved areas of MOIL and ensure exclusion of such areas while finalizing the proposal.

Sl. No.	Agency	Brief Comments
1.	GSI	In the Piparwani Koylari Block, significant MnO concentrations have been recorded in the BRS samples, ranging from 0.1% to 44.2%, with an average value of 12.7%. In the PTS samples, MnO content varies from 0.65% to 34.29%, with a mean value of 18.89%. A total of 25 BRS samples collected from the Dulhapur area show notable MnO values ranging between 19.32% and 32.33%, averaging 25.28%. Fourteen samples from the Pathrapet area exhibit MnO contents ranging from 10.14% to 42.96%, with a mean of 19.72%. Eight samples collected from the Koylari area record MnO values between 9% and 44.23%, with an average of 33.15%. The manganese-bearing mineral phases identified in the area predominantly include spessartine, braunite, hausmannite, bixbyite, jacobsonite, psilomelane, and pyrolusite. Whereas in the Jogitola block, the BRS samples show encouraging MnO values ranging from 0.08% to 67.49%, with an average of 17.84%. In the PTS samples, MnO contents range from 0.23% to 50.37%, with a mean value of 15.22%. The manganese-bearing mineral phases identified in the study area include spessartine, braunite, hausmannite, bixbyite, jacobsonite, psilomelane, and pyrolusite. Since the both the adjacent blocks, exhibits the encouraging values for MnO the area may be feasible for taking up Manganese and associated minerals.
2.	MECL	The proposal is not overlapping with MECL explored block and ongoing blocks.
3.	AMD	NA
4.	State DMG/DGM/CGM	DMG informed during the meeting that a small part in the north-eastern part of the block has been auctioned .
5.	NMEDT	The proposed block is partially overlapping with NMEDT funded block.

Recommendations of TCC-1:

The committee deferred the proposal as about 18 sq. km in the south western part overlaps with an NMEDT-approved block and several manganese

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mining leases exist in the northern part of the area. The agency was advised to verify the reserved areas of MOIL, ensure the area is free from all encumbrances, and omit mining lease areas. Thereafter, the agency may submit a DPR in the next TCC meeting.

Agenda 91.3.3. Preliminary Exploration (G3) for Limestone and Associated Minerals in Kevalari-Sujanipur Block, Dist: Sagar and Damoh, Madhya Pradesh

[Implementing Agency: APC Drilling]

- a. The proposed block falls in Survey of India Toposheet No. 55M/01 and comprises sedimentary sequences of the Vindhyan Supergroup along with Lameta Formation and Deccan Basalt.
- b. It was noted that systematic geological mapping of the area was carried out during FS: 1956–57 and 1960–61.
- c. The committee noted that representative samples of Bhandar limestone show CaO ranging from 35.01% to 50.13%, with variable silica and other oxides.
- d. It was further noted that GSI carried out G4 stage reconnaissance (FS: 2023–24) for limestone of Nagod and Lameta formations in Sagar and Damoh districts.
- e. In Lameta limestone, CaO ranges from 0.28% to 48.98% (avg. ~33.77%), with wide variation in SiO₂ and MgO.
- f. In Nagod limestone, CaO ranges from 18.76% to 47.32% (avg. ~35.99%), also showing variability in associated oxides.
- g. The agency proposed G3 stage exploration involving detailed geological mapping (1:4,000), pitting/trenching, and grid-based drilling (10–15 boreholes) up to 60 m depth.
- h. It was observed that part of the proposed area overlaps with a proposal by Unised Research Consultants Pvt. Ltd.; however, since APC Drilling submitted first, its proposal was considered. Unised was advised to identify intervening potential areas, while APC Drilling was advised to restrict its proposal within its identified area and maintain a 500 m buffer from leased areas.
- i. The committee further observed that the proposed area overlaps with G3 exploration blocks of GSI as well as EL auction blocks and existing mining leases.
- j. The committee advised the agency to exclude already explored areas, EL blocks, and mining lease areas, revise the proposal accordingly, and submit it for in-principle approval in the next TCC meeting.

Sl. No.	Agency	Brief Comments
1.	GSI	However, the proposed block partially overlaps the adjacent Botrai South block, where the subsurface lithology is predominantly siliceous and mixed calcareous siliceous, with only sporadic calcareous horizons. Chemical analyses indicate that CaO concentrations across all boreholes remain well below the minimum threshold required for cement-grade limestone, ranging from 0.43% to 24.77%, with only a few isolated samples exhibiting marginally higher values. In contrast, SiO ₂ content is

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		consistently high frequently exceeding 50–60% confirming the dominant siliceous nature of the material. Al ₂ O ₃ (8–18%) and Fe ₂ O ₃ (3–7%) fall within acceptable limits, while MgO levels (2–5%) generally remain within permissible ranges.
2.	MECL	The proposal is not overlapping with MECL explored block and ongoing blocks.
3.	AMD	NA
4.	State DMG/DGM/CGM	The block is partially overlapping with already explored block of GSI.
5.	NMEDT	The proposal does not overlap with NMEDT funded block, however, M/s. Unised Research Consultant Pvt. Ltd. had also submitted a proposal in the same area.

Recommendations of TCC-1:

The committee deferred the proposal as the proposed block overlaps with areas already explored by GSI, EL auction blocks, and existing mining leases. The agency was advised to modify the proposal accordingly, restrict the area within the three proposed blocks of APC Drilling, and submit it for in-principle approval in the next TCC meeting.

Agenda 91.3.4. Preliminary Exploration (G3) for Graphite and associated minerals in Barwaiya-Irgu Block, Palamu & Latehar District, Jharkhand

[Implementing Agency: APC Drilling]

- a. The proposed block falls in Survey of India Toposheet No. 73A/05 and comprises high-grade metamorphic rocks of the Chhotanagpur Gneissic Complex, intruded by granitic and basic bodies, with local cover of Lower Gondwana Talchir sediments.
- b. It was noted that early geological mapping (FS: 1945–46) identified graphite-bearing schist lenses in the Ledwakhar–Rabda sector.
- c. Further studies (FS: 1951–53) delineated E–W trending graphite schist bands associated with quartz-sillimanite schist and calc-granulite, along with evidence of old workings.
- d. Detailed prospecting (1965–66) confirmed workable graphite lenses with 10–25% fixed carbon.
- e. Subsequent studies (1968–69) identified multiple graphite occurrences and defined a narrow graphite belt in the region.
- f. Recent investigations (FS: 2019–20) delineated 15 graphite schist bands and multiple potential blocks, with FC values ranging from ~7.66% to 37.06% in BRS and up to ~37.28% in trench samples.
- g. G4 stage reconnaissance (FS: 2022–23) identified multiple graphite-bearing bands with strike lengths up to 400 m and widths of 10–30 m.
- h. Analytical results indicate FC values ranging from ~1.01% to 34.78% (pit/trench) and 0.58% to 28.02% (BRS), with ~70% samples exceeding 10% FC.
- i. The agency proposed G3 stage exploration involving detailed geological mapping (1:2,000), geophysical surveys, pitting/trenching, and systematic drilling.
- j. The committee reviewed the proposal and observed that the proposed area (6.35 sq. km) includes significant non-graphite-bearing zones. It was advised to exclude barren

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areas, restrict the proposal to graphite-bearing host rocks, omit mining lease areas, and maintain a 500 m buffer from such leases.

Sl. No.	Agency	Brief Comments
1.	GSI	The Chama Barwaiya and Irgu block have been reported by GSI as a part of its G4 investigation by Sikha Singh et al 2022-23. GSI to the west of this block has augmented several bodies to the resource stage (G2 & G3), yielding close to 60 MT of graphite in the past few years.
2.	MECL	MECL has not carried out exploration in the proposed block.
3.	AMD	NA
4.	State DMG/DGM/CGM	State govt. informed that the data will be shared shortly. Comments awaited.
5.	NMEDT	The proposed block is not overlapping with NMEDT funded block.

Recommendations of TCC-1:

The committee deferred the proposal as the area is large and contains significant non-mineralised zones. The agency was advised to exclude barren areas, restrict the proposal to graphite-bearing host rocks, omit mining lease areas, and maintain a 500 m buffer from such leases.

**Agenda 91.3.5. Preliminary Exploration (G3) for Nickel, Chromium Copper and PGE in Dewal Kundula Block in Dungarpur District, Rajasthan.
[Implementing Agency: M/s. Envirogreen Consultants (India) Private Limited]**

- a. The proposed block is located in Dungarpur district, Rajasthan, falling in Survey of India Toposheet No. 46E/09.
- b. It was noted that the area forms part of the Aravalli Supergroup along with post-Aravalli intrusives of serpentinised ultramafics (Rakhabdev ultramafics), with the Aravalli belt extending in an arcuate form and bounded by Bhilwara and Delhi Supergroups.
- c. The committee further noted that the litho-units include dolomite, quartzite, and phyllite of the Aravalli Supergroup, along with Balicha Formation comprising phyllite, mica schist, quartzite, and dolomite lenses.
- d. It was observed that large-scale mapping (FS: 2017–18) identified surface manifestations of copper mineralization such as malachite staining, gossans, and old workings in Dewal, Khanmine, and Methali areas.
- e. Sample analysis from old workings near Dewal indicated Cu values up to 1.72% and Ni up to 0.17%.
- f. The committee reviewed the proposal and observed that the proposed area overlaps with a CL block and also with an area proposed by Vardan Environet LLP. Further, the block falls under FSI Aravalli, and decisions regarding exploration activities are subject to the Hon'ble Supreme Court's decision.

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Sl. No.	Agency	Brief Comments
1.	GSI	<p>In the proposed G-3 block, the nickel and chromium concentrations are observed to be low, with nickel values below 2,602 ppm and chromium values less than 3,798 ppm. However, only one bedrock sample (BRS-91) within the block shows a comparatively higher copper concentration of 9,820 ppm Cu. Therefore, the area does not seem much feasible for taking up G3 stage exploration for Ni, Cr.</p> <p>Furthermore, the proposed G-3 block delineated by NPEA partially overlaps with the GSI GM Block "Dewal-Khanmin-Wagdari Block," which has already been handed over to the State Government. Hence, the proposed block may need to be reconsidered.</p>
2.	MECL	MECL has not carried out exploration in the proposed block.
3.	AMD	NA
4.	State DMG/DGM/CGM	<p>In the proposed area, DMGR carried out preliminary survey during 1996- 98 in the area through reconnaissance and sampling. Analysis result has indicated encouraging results, showing a Ni value of 1775 ppm and Cu values ranging from 25 ppm to 5800 ppm. Part of this proposal area is proposed for exploration in field season 2026-27.</p> <p>As described at NMET site – 78.9969 hectares of this proposal area is overlapping with proposed</p> <p>Composite License block. 22.8860 hectares of proposal area is overlapping with NPEA block for which consent has already been given. 164.04 hectares of the proposal area is conflicting with Aravali status. 4.4941 hectares of proposal area is overlapping with delineated plots for minor mineral. Part of this proposal area is proposed for exploration in field season 2026-27.</p>
5.	NMEDT	The proposed block is not overlapping with NMEDT funded block.

Recommendations of TCC-1:

The committee deferred the proposal as the proposed block falls under the FSI Aravalli, and the decision regarding exploration activities will be finalized after the Hon'ble Supreme Court's decision.

Agenda 91.3.6. Preliminary Exploration (G3) for Nickel, Chromium, Copper, PGE & Wollastonite in Gamri Dewal Block of Dungarpur District, Rajasthan.

[Implementing Agency: M/s. Envirogreen Consultants (India) Private Limited]

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- a. The study area forms part of the Aravalli Supergroup along with post-Aravalli intrusives of serpentinised ultramafics (Rakhabdev ultramafics), with the Aravalli belt extending in an arcuate form and bounded by the Bhilwara and Delhi Supergroups.
- b. It was further noted that the area comprises dolomite, quartzite, and phyllite of the Aravalli Supergroup, along with Balicha Formation represented by phyllite, mica schist, quartzite, and dolomite lenses, and associated ultramafic intrusives.
- c. The committee noted that large-scale mapping (FS: 2017–18) identified surface manifestations of copper mineralization such as malachite staining, gossans, mine dumps, and old workings in Dewal, Khanmine, and Methali areas, with mineralization divided into eastern and western parts in Dewal area.
- d. It was observed that samples collected from old workings near Dewal show Cu values up to 1.72% and Ni values up to 0.17%.
- e. The committee reviewed the proposal and observed that the proposed area falls under FSI Aravalli, and decisions regarding exploration activities will be finalized after the Hon'ble Supreme Court's decision.

Sl. No.	Agency	Brief Comments
1.	GSI	<p>In and around proposed NPEA block, GSI has carried out G4 investigation for Basemetal as well as Ni and PGE. In the areas Nickel values are maximum up to 3700ppm. As per GSI G4 reports chromium values are also up to 3,798 ppm. Also the copper values are encouraging and a band of wollastonite is also reported. Therefore, a G3 stage investigation may seem feasible for copper and wollastonite.</p> <p>The proposed G-3 block by NPEA shows slight overlap with the GSI GM Block "Dewal–Khanmin–Wagdari Block," which has already been handed over to the State Government (Plate-I). Therefore, the proposed block may require reconsideration to avoid block boundary issue.</p>
2.	MECL	MECL has not carried out exploration in the proposed block.
3.	AMD	NA

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4.	State DMG/DGM/CGM	DMGR carried out preliminary survey during 1996–98 in the area through reconnaissance and sampling. Analysis result has indicated encouraging results, showing a Ni value of 1775 ppm and Cu values ranging from 25 ppm to 5800 ppm. 40.9661 hectares of this proposal area is overlapping with proposed Composite License block. 40.3342 hectares of proposal area is overlapping with NPEA block for which consent has already been given. This proposal area is proposed for exploration in field season 2026-27 by DMGR. Consent for exploration for this proposal can not be given as the area is proposed for further exploration by DMGR.
5.	NMEDT	The proposed block is not overlapping with NMEDT funded block.

Recommendations of TCC-1:

The committee deferred the proposal as the proposed block falls under the FSI Aravalli, and the decision regarding exploration activities will be finalized after the Hon’ble Supreme Court’s decision.

**Agenda 91.3.7. Preliminary Exploration (G3) for Copper (Cu) & associated minerals in Kun Block of Udaipur District, Rajasthan
[Implementing Agency: M/s. Envirogreen Consultants (India) Private Limited]**

- a. The proposed block falls in Survey of India Toposheet No. 45L/03 and comprises Archean rocks of the Bhilwara Supergroup, including the Mangalwar Complex and Sandmata Complex.
- b. It was noted that the Mangalwar Complex represents a migmatitic assemblage, while the Sandmata Complex comprises high-grade granulite facies rocks with mafic and acidic intrusives, with Lasaria Formation occupying a major part of the study area.
- c. The committee noted that earlier studies (Sharma et al., 2005) identified shear-controlled copper mineralization with Cu values ranging from 0.5% to 2% over a strike length of ~500 m.
- d. It was further noted that sulphide mineralization with Cu up to 1% and Au (110–500 ppb) was reported in mafic and granitic rocks (Kumar & Chishti, 2002).
- e. Additional studies (Srivastava, 2011) reported chalcopyrite, pyrrhotite, and arsenopyrite with similar Cu and Au values.
- f. Recent work (Sathe & Shekhawat, 2021) identified malachite staining and sulphide mineralization, with Cu values up to 0.40%.
- g. G4 stage reconnaissance (FS: 2022–23) reported encouraging Cu values up to 3.96% in multiple locations.
- h. The agency proposed G3 stage exploration involving detailed geological mapping (1:2,000), geophysical surveys, pitting/trenching, and systematic drilling.

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- i. The committee reviewed the proposal and noted that the project had been discussed earlier, and the proposed block overlaps with GSI blocks and a proposal by M/s GeoExpOre Pvt. Ltd.
- j. The committee advised the agency to exclude all overlapping areas and submit a revised DPR in the next TCC-I meeting.

Sl. No.	Agency	Brief Comments
1.	GSI	The proposal submitted by NPEA also does not show the locations and analysis of the samples in the proposed area (bedrock, channel, trench, groove etc. of the GSI reports, which indicates and justify the potentiality of the proposed area for G3 stage of exploration except Gundla ki Bhagal area. In Gundla ki Bhagal area GSI has already completed G3 stage of Exploration lying in the southern part of the proposed area. The northern part of the area needs to be supported by data collected during G4 stage for assessment of the proposed NPEA Block for carrying out G3 stage of Exploration. The area needs reconsideration for overlapping issue with Gundla Ki Bhagal G3 project.
2.	MECL	MECL has not carried out exploration in the proposed block.
3.	AMD	NA
4.	State DMG/DGM/CGM	As per available data, this area is considered easible for taking up exploration for mineral Cu, Ni, Co, Zn, Ag, Au & WO ₃ . 04 mining leases for mineral Felspar, Granite, Quartz, Masonary stone, Quartzite. No other litigation conflict with the area. This proposal area overlaps with the area proposed for exploration by NPEA M/s GeoExpOre Pvt Ltd. exploration proposal dated 03.10.2025. As per aforesaid information, consent for exploration for this proposal is given for the area excluding mining leases.
5.	NMEDT	The proposed block is not overlapping with NMEDT funded block.

Recommendations of TCC-1:

The committee deferred the proposal as the block overlaps with a GSI block and the proposed block of M/s GeoExpOre Pvt. Ltd. The agency was advised to exclude all overlapping areas and submit a revised DPR in the next TCC-I meeting.

**Agenda 91.3.8. Preliminary Exploration (G3) of Limestone Pathria, Sasa and Sujanipur areas, Sagar and Damoh Districts, Madhya Pradesh
[Implementing Agency: Unised Research Consultants Private Limited]**

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- a. The proposed block falls in Survey of India Toposheet No. 55M/01 and comprises sedimentary sequences of the Vindhyan Supergroup along with Lameta Formation and Deccan Basalt.
- b. It was noted that systematic geological mapping of the area was carried out during FS: 1956–57 and 1960–61.
- c. The committee noted that representative samples of Bhandar Limestone show CaO ranging from 35.01% to 50.13%, along with variable silica and other oxides.
- d. It was further noted that GSI carried out G4 stage reconnaissance (FS: 2023–24) for limestone in Garhakota and Patharia areas.
- e. The committee observed that CaO content in calcareous sandstone ranges from 21.26% to 29.09%, while limestone of Nagod and Lameta formations shows CaO values up to ~47.96% and ~47.89% respectively.
- f. It was also noted that recent studies indicate appreciable CaO values with moderate silica and balanced MgO content, suggesting economic potential of limestone in the area.
- g. The agency proposed G3 stage exploration involving detailed geological mapping (1:4,000), pitting/trenching, and grid-based drilling (10–15 boreholes) up to 60 m depth.
- h. The committee reviewed the proposal and observed that the proposed area overlaps with blocks proposed by M/s APC Drilling. The committee advised the agency to identify intervening gap areas excluding already explored GSI blocks, APC Drilling areas, and mining leases, and to undertake field visits to delineate suitable areas for G3 stage exploration.

Sl. No.	Agency	Brief Comments
1.	GSI	The area is overlapping with G4 block of FS 2023-24
2.	MECL	MECL has not carried out exploration in the proposed block.
3.	AMD	NA
4.	State DMG/DGM/CGM	Awaited
5.	NMEDT	There are no completed or ongoing NMEDT-funded projects in and around the proposed block. Verified through NGDR Portal

Recommendations of TCC-1:

The committee deferred the proposal as the area overlaps with already explored blocks, EL auction blocks, and existing mining leases. The agency was advised to identify intervening gap areas by excluding GSI-explored areas, blocks proposed by M/s APC Drilling, and mining lease areas, and to undertake field visits to delineate potential areas for G-3 stage exploration.

Agenda 91.3.9. Reconnaissance Survey (G4) of Lead-Zinc, Graphite and Vanadium Mineralization in Shergaon areas, West Kameng District. Arunachal Pradesh

[Implementing Agency: Unised Research Consultants Private Limited]

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- a. The The proposed block falls in Survey of India TS. No No. No. 83A/04, 83A/08. The area exposes metasedimentary sequence of Bomdila Group within the Lesser Himalayas of Arunachal Pradesh
- b. The rock assemblage consists of unfossiliferous, low-grade metasediments of arenaceous, argillaceous, and calcareous composition, which are thrust over by Bomdila Gneisses and younger granitoids. The area lies between two major thrusts: The Main Central Thrust (MCT) to the northwest and the Main Boundary Thrust (MBT) to the southeast.
- c. Preliminary investigations for lead-zinc mineralization near Shergaon were conducted during the field season (F.S.) 1988-89. It is prompted by the discovery of a dolomite boulder with ~20% visible galena at the confluence of Doblo-Kho River, near the 35 km stone on the Rupa-Kalaktang Road.
- d. Analyses of four galena-ore samples revealed Pb contents ranging from 4.72% to 84.02%, Zn from 0.1% to 0.32%, and Ag up to 90 ppm. A sphalerite ore sample showed 43.50% Zn, with 900 ppm Pb, 900 ppm Cd, and 2 ppm Ag.
- e. Sar et al. (1993-94) identified a promising 150-m stretch along the western scarps of the Amritganga stream, with a cumulative ore zone thickness of 3-12 m and Pb-Zn concentrations of 1-10%.
- f. Wanchoo et al. (1993-94) analyzed 204 samples from mineralized dolomite in the Shergaon area: 14 samples had Pb of 1-4.1%, and four had Zn of 1-3.12%; 33 samples showed Zn of 0.1-0.37%.
- g. Drilling in the Mukatung and Vasundhara-Amritganga blocks (BH-SAV-1) confirmed mineralization with 0.75-5% Pb over 13.45 m at shallow depths.
- h. In view of the above, the agency presented the proposed block for G4 Stage exploration. The work component includes Large scale Geological Mapping (1:12,500 scale) pitting/trenching, assessment of mineral potential.
- i. The committee reviewed the proposal and it is found that the about 70% of the proposed area is overlapping with EL block of Shergaon area. It is suggested to revisit the area and an potential area based on geological considerations may be identified.

Sl. No.	Agency	Brief Comments
1.	GSI	<ul style="list-style-type: none"> •The proposed NMET block shows overlap with the earlier explored block of Shergaon area from FS 1988-1995. •As per information received from DGM, Arunachal Pradesh, EL block of 206 sq.km is already put up for auction during Tranche-I of EL auction for Pb-Zn and associated mineralisation and will be put up again for auction in upcoming EL auction. The proposed NMET block has more than 70 % overlapping with the EL block of Shergaon area.
2.	MECL	MECL has not carried out exploration in the proposed block.
3.	AMD	There is no ongoing exploration / reconnaissance project.
4.	State DMG/DGM/CGM	The proposed block overlap with PL/EL blocks.

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5.	NMEDT	As per the information received from Geological Survey of India and the Directorate of Geology & Mining (DGM), Arunachal Pradesh, the EL block covering an area of 206 sq. km has already been put up for auction during Tranche-I of the EL auction for Pb–Zn and associated mineralisation and is proposed to be re-auctioned in the upcoming EL auction. Further, the proposed NMEDT block overlaps by more than 70% with the EL block of the Shergaon area.
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Recommendations of TCC-1:

The committee deferred the proposal as about 70 % of the proposed area is overlapping with EL block of Shergaon area which is under auction.

Agenda 91.3.10. Reconnaissance survey (G4) for Gold, Tungsten and REE mineralization within the rock units of Donargarh Granite (Bundelli Granite formation) and Quartz Vein & basic dykes of Mesoproterozoic age in and around Bamhandehi, Bangawan, Lohjhar, Taraf Manjali (OG), Amethi and Gondalabahara areas of Gariaband district of Chhattishgarh

[Implementing Agency: Indian Mine Planners and Consultant]

- a. The agency did not present the project proposal and requested for review in next TCC meeting.

Recommendations of TCC-1:

The agency did not present the project proposal for review.

Agenda 91.3.11. Reconnaissance survey (G4) for Vanadium, Gallium and REE mineralization within the rock units of Proterozoic granite gneissic rock of Chhotanagpur Granite Gneissic formation and Cenozoic Lateritic soil of Cenozoic formation in and around Karamdih, Jariyo, Dumarkholi, Charahat Kalan, Kutkoo, Rajendarpur Taraf and Manjali areas of Balrampur district of Chhattishgarh

[Implementing Agency: Indian Mine Planners and Consultant]

- a. The proposed block falls in Survey of India Toposheet No. 64M/15 and lies within the Chhotanagpur Granite Gneissic Complex (CGGC), overlain by Cenozoic laterite.
- b. It was noted that GSI carried out G4 stage reconnaissance (FS: 2013–15) in adjacent areas for Ti, V, Ga, and REE, involving geological mapping and drilling.
- c. The committee noted that bedrock samples showed significant concentrations of TiO_2 (0.43%–12.46%), V_2O_5 (0.01%–0.42%), and Ga (15–122 ppm).
- d. It was further noted that GSI conducted G3 stage exploration (FS: 2021–22) in Karma Block for graphite, vanadium, and associated minerals.

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- e. An estimated resource of 5.84 million tonnes of vanadium (at 500 ppm cut-off) with an average grade of 781 ppm (0.14% V₂O₅) has been reported.
- f. The agency proposed G4 stage exploration involving large-scale geological mapping (1:12,500), pitting/trenching, and assessment of mineral potential.
- g. The committee reviewed the proposal and observed that it lacks proper justification, systematic exploration strategy, and essential technical inputs.
- h. The committee advised the agency to superimpose geochemical anomalies on the geological map of the proposed area and submit a revised proposal.

Sl. No.	Agency	Brief Comments
1.	GSI	100% overlapping found in the proposed Block with GSI previous work of 1978-79.
2.	MECL	MECL has not carried out exploration in the proposed block.
3.	AMD	AMD has carried out G4 stage of exploration of uranium in and around the proposed block in different phases, wherein evidence of mineralisation has been established. 8 samples (n=8) analysed up to 0.049% U ₃ O ₈ from the area.
4.	State DMG/DGM/CGM	Awaited

Recommendations of TCC-1:

The committee deferred the proposal as the agency did not present adequate justification and a systematic exploration strategy for the proposed block. The agency was advised to submit a revised proposal incorporating the committee's suggestions.

Agenda 91.3.12. Preliminary exploration (G3) for Vanadium, Graphite, Barium and other associated minerals in Sundungra Block, District: Champawat, Uttarakhand.

[Implementing Agency: Ocean Drilling & Exploration Pvt. Ltd.]

- a. The proposed block falls in Survey of India Toposheet No. 530/15 and comprises Proterozoic rocks of the Gumalikhhet Formation (Almora Group) with minor exposure of Champawat Granite.
- b. It was noted that carbonaceous phyllite occurs as thinly foliated bands within grey phyllite, with widths varying from a few centimeters to ~80 m, indicating variable depositional conditions.
- c. The committee noted that G4 stage reconnaissance (FS: 2022–23) was carried out for vanadium and allied metals in the Chaura, Sirmoli, and Lohaghat areas.
- d. Analytical results (100 samples) indicate vanadium values ranging from 33 to 5212 ppm (median 578 ppm) and barium values from 164 to 40,518 ppm (median 4798 ppm).
- e. Yttrium values range from 23 to 444 ppm (median 103 ppm), while molybdenum ranges from 0.85 to 288 ppm (median 63 ppm).

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- f. The agency proposed G3 stage exploration involving detailed geological mapping (1:2,000), pitting/trenching, and assessment of mineral potential.
- g. The committee reviewed the proposal and observed that the block appears promising, and preliminary (G3 stage) exploration would be useful to evaluate the mineral potential.

Sl. No.	Agency	Brief Comments
1.	GSI	The encouraging values of V, Ba, Y and Mo in the area indicate a promising potential for V and allied metals. The area needs to be further explored both in terms of further reconnaissance work in the strike continuity of the existing carbonaceous phyllite bands as well as G-3 stage investigation for resource estimation.
2.	MECL	MECL does not have any overlap with the proposed block.
3.	AMD	NA
4.	State DMG/DGM/CGM	No overlap or any CL/ML
5.	NMEDT	No ongoing or completed block in the area.

Recommendations of TCC-1:

The committee in-principally approved the project and suggested the agency to bring DPR in forthcoming meeting of TCC-I.

Agenda 91.3.13. Preliminary exploration (G3) for cement grade limestone in Bhanwariya Khurd Block, District: Chittorgarh, Rajasthan. [Implementing Agency: Ocean Drilling & Exploration Pvt. Ltd.]

- a. The proposed block falls in Survey of India Toposheet No. 45O/04 in Chittorgarh district, Rajasthan.
- b. DMG Rajasthan informed that the area has potential for cement grade limestone but the proposed block falls within 10 km ESZ boundary of Bassi Wildlife sanctuary. Hence the permission for exploration may not be accorded.

Sl. No.	Agency	Brief Comments
1.	GSI	GSI has carried out G4 stage exploration in the area. As per G4 investigation carried out by GSI during FS 2022-23, the area is potential for cement grade limestone mineralization. At present no exploration for Cement grade Limestone and any other mineral/commodity is being carried out in the area.

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2.	MECL	There is no overlapping with MECL explored block and ongoing block.
3.	AMD	NA
4.	State DMG/DGM/CGM	DMGR carried out exploration in F.S. 2016-17 to 2019-20 covering 32.5 sq. km. under Geological mapping, 303 meters drilling spread over 5 boreholes. The chemical analysis results of the boreholes revealed average CaO 26.15% to 38.34% and SiO ₂ 15.34% to 42.47% with MgO less than 2%. In addition to this, during F.S. 2023- 24, an auction block Chandakheri-Sadi-Palka Limestone Block having area- 741.00 hectares geological resources- 171.72 million tonnes has been successfully auctioned to J.K. Cement Works Ltd. at 23.10% bid. This block is situated in the south east of the proposal area. There is no ongoing project in this area. Area is potential for Cement Grade Limestone. This proposal area does not conflict with any mineral concessions and litigations. This proposal area falls within 10 KM ESZ boundary of Bassi Wildlife Sanctuary. This proposal area does not fall within 10 KM boundary of Chittaurgarh Historical Fort. Consent for exploration can not be given in the said area as proposal area falls within 10 KM ESZ boundary of Bassi Wildlife Sanctuary.
5.	NMEDT	The proposed block is not overlapping with NMEDT funded block.

Recommendations of TCC-1:

The committee deferred the proposal as the area lies within 10 km ESZ boundary of Bassi Wildlife Sanctuary, Rajasthan

Agenda 91.3.14. Preliminary exploration (G3) for cement grade limestone in Fatehpur Block, District: Chittorgarh, Rajasthan, [Implementing Agency: Ocean Drilling & Exploration Pvt. Ltd.]

- a. The proposed block falls in Survey of India Toposheet No. 45O/04 in Chittorgarh district, Rajasthan.
- b. The agency informed that geological investigations in the region were initiated by early workers including C.A. Hacket and Kishen Singh (1881), followed by Coulson (1927) and Heron (1917 & 1922), with subsequent mapping by S.N. Gupta & Y. Zutshi (1971–72) and Balmiki Prasad & Y. Zutshi (1972–73).
- c. It was also informed that large-scale geological mapping was recently carried out by GSI during FS: 2022–23.
- d. The committee was further apprised that NGCM studies (FS: 2010–12) in toposheet no. 45O/4 indicated high CaO values, particularly in the southern to southwestern parts, associated with limestone-bearing formations.

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- e. The agency informed that the block forms part of the Vindhyan Supergroup and is dominated by Bhandar limestone extending ~10 km from Samaria Kalan to Rayta, with well-defined contacts marked by underlying Samaria shale and overlying dolomite.
- f. Limestone is massive, fine-grained, and argillaceous, occurring in red, black, and purple varieties, with features such as lamination, intraformational breccia, dolomitic bands, and an average thickness of ~15 m based on surface exposures and dug well data.
- g. The Fatehpur Block is proposed for G-3 level of exploration to establish the subsurface potentiality of cement grade limestone based on anomalous value in bed rock samples. CaO values upto 52.43% is recorded in pit sample in the area.
- h. Representative from DMG, Rajasthan informed the committee that the area falls under 5-year plan of Rajasthan and the area is proposed to be taken up in upcoming years.
- i. The committee suggested DMGR to communicate their upcoming (2026-27) programmes to NMEDT and if the proposed block is not approved for 2026-27, then the agency may bring DPR.

Sl. No.	Agency	Brief Comments
1.	GSI	GSI has carried out G4 stage exploration in the area. As per G4 investigation carried out by GSI during FS 2022-23, the area is potential for cement grade limestone mineralization. At present no exploration for Cement grade Limestone and any other mineral/commodity is being carried out in the area.
2.	MECL	There is no overlapping with MECL explored block and ongoing block.
3.	AMD	NA
4.	State DMG/DGM/CGM	DMGR carried out exploration in F.S. 2016-17 to 2019-20 covering 32.5 sq. km. under Geological mapping, 303 meters drilling spread over 5 boreholes. The chemical analysis results of the boreholes revealed average CaO 26.15% to 38.34% and SiO ₂ 15.34% to 42.47% with MgO less than 2%. In addition to this, during F.S. 2023- 24, an auction block Chandakheri-Sadi-Palka Limestone Block having area- 741.00 hectares geological resources- 171.72 million tonnes has been successfully auctioned to J.K. Cement Works Ltd. at 23.10% bid. This block is situated in the south east of the proposal area. There is no ongoing project in this area, this area is proposed for exploration during upcoming field seasons. Area is potential for Cement Grade Limestone.

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		This proposal area conflicts with two held mining leases, does not conflict with any litigations. This proposal area does not fall within 10 KM ESZ boundary of Bassi Wildlife Sanctuary. This proposal area does not fall within 10 KM boundary of Chittaurgarh Historical Fort. Consent for exploration can not be given in the said area as proposal area is considered for exploration by DMGR in upcoming field seasons.
5.	NMEDT	The proposed block is not overlapping with NMEDT funded block.

Recommendations of TCC-1:

The committee suggested DMGR to communicate their upcoming (2026-27) programmes to NMEDT and if the proposed block is not approved for 2026-27, then the agency may bring DPR.

**Agenda 91.3.15. Preliminary exploration (G3) for Base metal and associated metals in Lalpura-Budal Block, District: Udaipur, Rajasthan
[Implementing Agency: Ocean Drilling & Exploration Pvt. Ltd.]**

- a. The proposed block falls in Survey of India Toposheet No. 45H/15 in Udaipur district, Rajasthan.
- b. The agency informed that reconnaissance survey (FSP: 2018–19) by GSI involved systematic collection of 411 BRS/channel samples, 50 pitting/trenching samples, 14 petrological samples, and 20 ore microscopy samples.
- c. Geochemical results indicated anomalously high values of Cu, Co, Pb, and Zn. BRS samples show Cu ranging from 0.15–1.46%, Co from 315–1800 ppm, and Zn up to 0.49%, while channel samples show Cu ranging from 0.10–0.88% and Pb up to 0.14%.
- d. The agency also informed that surface indicators of mineralization such as malachite staining, ferruginization, limonitisation, and gossan zones are present.
- e. The committee reviewed the proposal and based on the results, the committee noted strong potential for base metal (Cu–Co–Pb–Zn) mineralization.
- f. In view of the promising findings, the agency has proposed G-3 stage exploration to investigate the continuity of mineralization and delineate potential zones.
- g. Representative from DMG, Rajasthan informed the committee that proposal area conflicts with 01 mining lease for mineral Limestone. This proposal area also conflicts with forest and Aravalli status.

Sl. No.	Agency	Brief Comments
1.	GSI	GSI has carried out G4 stage exploration in the area. Based on the surface evidence in G4 stage

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		investigation and BRS sample analysis, the area seems potential for Base metal and associated mineralization. However, the G3 stage project carried out in Roptalai Block, no promising zones could be established. At present no project is going on in the proposed area.
2.	MECL	MECL has not carried out exploration in the proposed block.
3.	AMD	NA
4.	State DMG/DGM/CGM	DMGR has not carried out exploration for mineral Basemetal and associated metals in this area. This proposal area conflicts with 01 mining lease for mineral Limestone. This proposal area conflicts with forest and Aravali status. As per aforesaid information, consent for exploration for this proposal is not given as this proposal area conflicts with Aravali status.
5.	NMEDT	The proposed block is not overlapping with NMEDT funded block.

Recommendations of TCC-1:

The committee deferred the project as it conflicts with Aravalli status.

**Agenda 91.3.16. Preliminary Exploration (G3) for Gold at Rajsol Block, District: Bankura, West Bengal
[Implementing Agency: Mining Associates Private Limited]**

- a. The proposed block falls in Survey of India Toposheet No. 73J/09 in Bankura district, West Bengal, forming part of the volcano-sedimentary sequence of the Singhbhum Group within the North Singhbhum Mobile Belt.
- b. It was noted that GSI carried out prospecting for gold in the Rudra area during FS: 2006–07 and 2007–08.
- c. Analytical data indicate gold values ranging from 26 ppb to 650 ppb in soil samples, with a bedrock quartz vein sample yielding >1 ppm Au.
- d. Field panning tests in Hansadungri and Rajsol areas confirmed visible gold flakes and fine specks, indicating surface expression of gold mineralization.
- e. The agency proposed G3 stage exploration involving detailed geological mapping (1:2,000), pitting/trenching, and mineral resource assessment.
- f. The committee reviewed the proposal and observed that the proposed area (~0.52 sq. km) is too small for G3 stage exploration considering the commodity. It was further noted that cultural features such as canals and dam sites fall within the area and need to be excluded. The agency was advised to modify the proposal by expanding the area based on geological framework and existing data, undertake field visits and submit a revised DPR for review.

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Sl. No.	Agency	Brief Comments
1.	GSI	The proposed Rajsol G3 Block is showing 48% overlap with GSI FS 2016-17 G4 item titled "Reconnaissance Survey for gold in and around Rudra village, Bankura and Purulia districts, West Bengal" which has already been handed over to DMM, West Bengal during 2021 as Geological Memorandum.
2.	MECL	MECL has not carried out exploration in the proposed block.
3.	AMD	NA
4.	State DMG/DGM/CGM	Regarding GM submitted by GSI, DMM WB stated that there is no existing Composite Licence or Mining lease, either for major or minor minerals, within the proposed block area. GSI was requested at 51 st SGPAB meeting to narrow down upto G3 level from the earlier G4 level project on gold at the Rudra area, Bankura District. Based on this, GSI is presently carrying out the revised exploration work. It seems that GSI, ER is performing G-3 level exploratory work on Gold at Hansadungri Block, North of Rudra Gold Block, as per request of State Govt. The Mukutmanipur dam falls at distance of approximately about 1.5 km from Hansadungri Gold Block and 1 km from Rajsol Gold Block respectively

Recommendations of TCC-1:

The committee deferred the proposal and advised the agency to revise the proposal after undertaking a field visit, enlarge the area based on geological considerations, and submit a revised DPR for review.

**Agenda 91.3.17. Preliminary Exploration (G3) of Limestone in Mander Block, District: Porbandar, Gujarat.
[Implementing Agency: Mining Associates Private Limited]**

- a. The agency informed that this proposal was previously presented in the 85th TCC-1 meeting.
- b. The committee had advised the agency to obtain NoC from Gujarat State Government.
- c. However, Gujarat Government has not given NoC for this block and has given NoC for four other blocks to the agency.
- d. The proposed block is allocated to some other agency. The agency informed that they will present two DPR and two in-principle proposals in the next TCC-1 meeting.

Recommendations of TCC-1:

The agency did not present their proposal for review.

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Agenda 91.3.18. Reconnaissance Survey (G4) for Bauxite in Maleta area, Dev Bhumi Dwarka District, Gujarat.

[Implementing Agency: Mining Associates Private Limited]

- a. The agency informed that this proposal was previously presented in the 85th TCC-1 meeting.
- b. The committee had advised the agency to obtain NoC from Gujarat State Government.
- c. However, Gujarat Government has not given NoC for this block and has given NoC for four other blocks to the agency.
- d. The proposed block is allocated to some other agency. The agency informed that they will present two DPR and two in-principle proposals in the next TCC-1 meeting.

Recommendations of TCC-1:

The agency did not present their proposal for review.

Agenda 91.3.19. Reconnaissance Survey (G4) For REE & RM mineralization in Paladugu Block, Khammam District, Telangana

[Implementing Agency: GMMCO]

- a. The proposed block falls in Survey of India Toposheet No. 65C/08 and comprises granitoids and gneissic rocks of the Peninsular Gneissic Complex (PGC-II), including TTG gneisses, granitic gneisses, and migmatites.
- b. It was noted that younger granites intrude the PGC-II as stocks, lenses, and plutons, often associated with shear zones and traversed by pegmatite and quartz veins.
- c. The committee further noted that pegmatites occur as tabular to lenticular bodies, composed mainly of quartz, feldspars, and mica, and host accessory minerals such as allanite, monazite, and zircon indicating REE enrichment.
- d. It was observed that pegmatites are structurally controlled, trending NE–SW, and show variable thickness.
- e. Previous studies (Banothu et al., 2022) reported significant TREE enrichment (602.68–2644.46 ppm; avg. ~1531.70 ppm) with dominant LREE and allanite as the principal REE-bearing phase.
- f. Geochemical mapping (Rai et al., 2019) also indicated elevated TREE values in the area, confirming REE potential.
- g. The agency proposed G4 stage exploration involving large-scale mapping (1:12,500), pitting/trenching, scout drilling (4–5 boreholes), and mineral potential assessment.
- h. The agency informed that preliminary field visits and handheld XRF surveys have been conducted, and sample analysis results are awaited.
- i. The committee reviewed the proposal and advised the agency to integrate analytical results with geological maps, undertake systematic (non-biased) sampling, and incorporate baseline geoscience data (NGCM, NGPM, etc.). It

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was also suggested to re-evaluate the geological interpretation, as intrusive granites may represent differentiated PGC variants, and to submit a revised proposal for in-principle approval.

Sl. No.	Agency	Brief Comments
1.	GSI	Overlapping with RMT project of SU Telangana
2.	MECL	MECL has not carried out exploration in the proposed block.
3.	AMD	No overlap
4.	State DMG/DGM/CGM	No overlap or previous work

Recommendations of TCC-1:

The committee deferred the proposal and advised the agency to revise the proposal by incorporating legacy data and to present the same in the next TCC-I meeting.

Agenda 91.3.20. Reconnaissance Survey (G4) For Basemetals and Associated Mineralization In Dasarlapalli area, Nalgonda District, Telangana [Implementing Agency: GMMCO]

- a. The proposed block falls in Survey of India Toposheet No. 56P/02 and comprises granitoids of the Peninsular Gneissic Complex (PGC-II) and quartzite of the Srisailam Formation of the Cuddapah Supergroup.
- b. It was noted that early geological mapping recorded ancient workings in conglomeratic horizons, interpreted as possible diamond prospecting.
- c. The committee further noted that investigations reported lead mineralization associated with quartz veins along shear zones, along with evidence of old workings.
- d. It was also noted that geochemical and geophysical studies indicated anomalous gold values and sulphide occurrences within metavolcanics, dykes, and quartz veins.
- e. Subsequent studies identified structurally controlled hydrothermal mineralization with sulphide assemblages (pyrite, chalcopyrite, galena) and associated alteration zones.
- f. Additional investigations confirmed base-metal mineralization associated with quartz veins, pegmatites, dolerite intrusions, and shear zones within PGC-II and related lithologies.
- g. The committee noted that hydrothermal sulphide mineralization occurs as disseminations, vein fillings, and fracture-controlled occurrences in granites and associated rocks.
- h. Based on the above, the agency proposed G4 stage exploration involving large-scale mapping (1:12500), pitting/trenching, and mineral potential assessment.
- i. The committee reviewed the proposal and observed that the proposed area falls within a Wildlife Sanctuary.

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Sl. No.	Agency	Brief Comments
1.	GSI	<p>The proposed Dasarlapalli block is situated in close proximity to the previously explored base metal blocks (G4 stage) by GSI namely Pedda-Adisaralapalli FS 2021-22, Mallepalli-Chintalkunta, FS: 2020-21, and Keshamannenipalle- Thungaturthy FS 2019-20.</p> <p>In the above blocks GSI have reported base metal mineralization in the later intruded quartz veins along shear zones.</p> <p>The proposed area by M/s. GMMCO TECHNOLOGY SERVICES LTD (GTS) falls in the Nagarjunasagar- Srisailam wild life sanctuary zone/ Nidgul reserve Forest area (Plate I, II).</p> <p>Based on the above, the project may be taken up for base metal investigation taking into consideration the presence of wild life sanctuary.</p>
2.	MECL	No overlap
3.	AMD	NA
4.	State DMG/DGM/CGM	No overlap or any ML/CL

Recommendations of TCC-1:

The committee deferred the proposal as the proposed area falls within a Wildlife Sanctuary.

Agenda 91.3.21. Preliminary Exploration (G3) For Tungsten and Associated Mineralization in and Around Talbahat Block, District: Lalitpur, Uttar Pradesh

[Implementing Agency: GeoExpOre Pvt. Ltd.]

- a. The proposed block falls in SOI TS No. 54K/08 and exposes rocks of Bundelkhand Gneissic Complex which is well known for hosting sulphide minerals viz., Pyrite and chalcopyrite in granites and older enclaves, along with large bodies of quartz vein which hosts tungsten and tin mineralization.
- b. The committee noted that in the proposed Talbahat block, a total of 14 bedrock samples (BRS) collected by GSI (2004) indicate tungsten values ranging from 363 ppm to 792 ppm (average 655 ppm) and cobalt values ranging from 35 ppm to 135 ppm (average 103.64 ppm).

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- c. The committee reviewed the proposal and observed that the samples collected from the area show consistent and encouraging tungsten values. However, it was suggested to verify whether sample processing was carried out using equipment composed of tungsten carbide, which may cause contamination during crushing and pulverizing.
- d. The committee further advised re-analysis of a few samples to validate the anomalous tungsten values before submission of the project. The agency was accordingly advised to submit the DPR after addressing the above observations.

Sl. No.	Agency	Brief Comments
1.	GSI	Exploration work for basemetal was carried out in different phases, from 1982-2012. Currently G4 investigation for gold and associated mineralisation is being carried out during FS. 2025-26. The proposed G3 block is within the G4 block of GSI of 2000-01
2.	MECL	Not carried out any exploration work.
3.	AMD	No overlap
4.	State DMG/DGM/CGM	There is no exploration work and mining leases in the proposed area.
5.	NMEDT	No auctionable (G3/G2) blocks, (G4/GM) blocks and no NMEDT funded projects overlap with the proposed block as per NGDR portal information.

Recommendations of TCC-1:

The committee accorded in-principle approval for the project and advised the agency to submit the DPR after re-checking and re-analysis of selected samples to validate the tungsten values.

Agenda 91.3.22. Preliminary Exploration (G3) For Tungsten and associated Minerals in and around Ruri Kalan Block, District: Mahoba, Uttar Pradesh.

[Implementing Agency: GeoExpOre Pvt. Ltd.]

- a. The proposed block falls in SOI TS No. 54O/07 and exposes rocks of Bundelkhand Gneissic Complex which is well known for hosting sulphide minerals viz., Pyrite and chalcopyrite in granites and older enclaves, along with large bodies of quartz vein which hosts tungsten and tin mineralization.
- b. The committee noted that in the proposed Ruri Kalan block, a total of 10 bedrock samples (BRS) collected by GSI (2004) indicate tungsten values ranging from 580 ppm to 884 ppm (average 700.17 ppm), cobalt values ranging from 99 ppm to 140 ppm (average 114.75 ppm), and silver values ranging from 1.60 ppm to 1.80 ppm (average 1.72 ppm).

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- c. The committee reviewed the proposal and observed that a major part of the proposed block overlaps with an Exploration Licence (EL) block for heavy minerals (Zirconium), for which NIT has already been issued. Hence, the proposal cannot be considered. The agency was advised to identify areas outside the EL block and submit a revised proposal for in-principle approval.

Sl. No.	Agency	Brief Comments
1.	GSI	G4 satge investigation for REE and associated mineralisation carried out during FS. 2016-17 which is north of the proposed area. The proposed block overlapping with the Exploration Licence (EL) block for heavy minerals (Zirconium) and an NIT has been issued.
2.	MECL	Not carried out any exploration work.
3.	AMD	No overlap
4.	State DMG/DGM/CGM	The proposed block overlapping with the Exploration Licence (EL) block for heavy minerals (Zirconium) and an NIT has been issued.
5.	NMEDT	No auctionable (G3/G2) blocks, (G4/GM) blocks and no NMEDT funded projects overlap with the proposed block as per NGDR portal information

Recommendations of TCC-1:

The committee deferred the proposal as the proposed block overlaps with an Exploration Licence (EL) block for heavy minerals (zirconium), for which NIT has already been issued; hence, the proposal cannot be considered.

Agenda 91.3.23. Preliminary Exploration (G-3) for copper and associated minerals in the environs of Kun Block, District: Udaipur, Rajasthan [Implementing Agency: GeoExpOre Pvt. Ltd.]

- a. NMEDT informed that the same block area has been proposed by both M/s Envirogreen Consultants (India) Private Limited and GeoExpOre Pvt. Ltd. Since M/s Envirogreen Consultants (India) Private Limited submitted the proposal earlier, their proposal has been considered.

Recommendations of TCC-1:

The committee did not approve the proposal as the same block area has been proposed by both M/s Envirogreen Consultants (India) Private Limited and GeoExpOre Pvt. Ltd. Since M/s Envirogreen Consultants (India) Private Limited submitted the proposal earlier, their proposal has been considered.

Agenda 91.4: Review of Ongoing Exploration Project & Timeline Extension

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Agenda 91.4.1. Preliminary exploration (G-3 stage) for limestone in Pedaveedu East Block, Suryapet District, Telangana
[Implementing Agency: MECL]

- a. MECL informed that the project was approved by Chairman, EC on 25.06.2025 and ratified in the 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 2nd July, 2025 with timeline of 7 months (up to 01.02.2026) and approved cost was INR 86,46,360/-. Timeline extension upto 28.02.2026 was approved by PSC, NMEDT during its 5th meeting.
- b. The agency informed that the work has been completed and GR has been submitted for peer review. The comments of reviewer are awaited.
- c. The agency informed that Preliminary exploration (G3) over 4.17 sq.km of Pedaveedu East block has been carried out and resources of Cement Grade Limestone and Threshold Grade Limestone as per MEMC rules 2015 (Amended 2021) is established.
- d. MECL informed that net geological resources of 410.57 Mt for cement grade and 437.11 Mt for Threshold Grade has been established.
- e. The agency also requested timeline extension upto 31.03.2026 for submission of GR.

Recommendations of TCC-1:

The committee recommended timeline extension upto 31.03.2026 for approval of PSC, NMEDT. The timeline extension is recommended for GR submission.

Agenda 91.4.2. Preliminary Exploration (G3) for Limestone in Dhunki-Chilai Block District: Yavatmal, Maharashtra
[Implementing Agency: MECL]

- a. MECL informed that the project was during 40th EC Meeting held on 21st February, 2025. The Sanction Order was issued on 5th March, 2025 with timeline of 8 months (up to 04.11.2025) and approved cost was INR 97,95,299/-. Timeline extension upto 28.02.2026 was approved during 5th PSC meeting.
- b. The agency informed that the Geological Report (GR) of the project has been peer reviewed, and the comments/suggestions received from the reviewer have been duly complied with.
- c. MECL informed that resources of Blendable Grade Limestone, Threshold Grade Limestone and Unclassified Dolomite as per MEMC rules 2015 (Amended 2021), has been established.
- d. The agency also informed that resources has been estimated by polygonal method with bulk density 2.71 gm/cc and the resources for each class is as follows:

Sl. No.	Category of Resources	Geological Gross in-situ Resources (Million Tonnes)
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1.	Blendable Grade Limestone	16.98
2.	Threshold Grade Limestone	97.50
3.	Unclassified Dolomite	58.55

- e. The committee discussed the comments of peer reviewer and its compliance.
- f. The agency informed that the peer reviewer had pointed out that there are eight cardinal points, which require verification. Accordingly, the agency requested approval for the fixation of additional four cardinal points. It was further informed that drilling up to 40 m in BH No. 2 could not be carried out due to the presence of shale intercalation. The agency therefore requested a reduction of 40 m of drilling along with the associated components.
- g. The committee recommended the revision of cost as requested by agency.
- h. The agency also sought timeline extension upto 15.03.2026 for submission of GR.

Recommendations of TCC-1:

The committee recommended revision of cost from Rs. 97.95 lakh to Rs. 89.36 lakh with a change in amount of (-) Rs 8.59 lakhs (~8.79 % de-escalation) for approval of PSC, NMEDT as per Annexure 4.

The committee also recommended timeline extension upto 15.03.2026 for approval of PSC, NMEDT.

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**Estimated cost for Preliminary Exploration (G3) for Limestone in Dhunki-Chilai block, District: Yavatmal, Maharashtra.
[Block area- 4.63 sq. km; Schedule timeline- 8 months]**

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal			Revised cost	Remarks
			SoC-Item -SI No.	Rates as per SoC	Qty.	Revised Qty.	Amount (Rs)		
A	GEOLOGICAL WORK								
1	Borehole logging, sampling & Report writing								
i	Charges for one Geologist- Field	day	1.2	11,000	100	100	11,00,000	11,00,000	
ii	Charges for one Geologist per- HQ	day	1.2	9,000	30	30	2,70,000	2,70,000	
iii	2 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	526	200	200	1,05,200	1,05,200	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
iv	Core Sampling -1 Samplers Labour charge not included	day	1.5.2	5,100	44	44	2,24,400	2,24,400	
v	4 labours/ party for smpling (As per rates of Central Labour Commissioner)	day	5.7	526	176	176	92,576	92,576	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or

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									respective State Govt. whichever is higher	
2	Survey (on 1:4000 Scale)									
i	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes and boundary coordinates by DGPS	Per Point of observation	1.6.2	19,200	11	15	2,11,200	2,88,000	4 additional block cardinal points increased due to overlap of proposed area	
ii	Charges of Surveyor	one surveyor per day	1.6.1a	8,300	30	30	2,49,000	2,49,000		
iii	Labours Charges for survey work; Base rate - Rs.504	day	5.7	526	120	120	63,120	63,120	Amount will be reimburse as per the notified rates for unskilled labor by the Central Labour Commissioner or respective State Govt. whichever is higher	
	Sub Total- A							23,15,496	23,92,296	
B	DRILLING									
i	Drilling upto 300m (Soft Rock) (1 rigs)	m	2.2.1.4a	7,168	350	310	25,08,800	22,22,080	40m reduced due to shale intercalation in 2 BH	
iii	Land / Crop Compansation	per BH	5.6	20,000	7	-	1,40,000	-	Amount will be reimbursed as per actuals or max. Rs. 20000 per BH with certification from local authorities	

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iv	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	7	7	14,000	14,000		
v	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	400	400	14,400	14,400	Certification in this regard is required to be provided	
vi	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	2	2	1,00,000	1,00,000		
vii	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	1	2,50,000	2,50,000		
viii	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	1	2,50,000	2,50,000		
ix	Approach Road Making (Hilly Terrain)	Km	2.2.10b	22,020	5	5	1,10,100	1,10,100	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed later	
x	Core Preservation: One complete borehole plus mineralised cores of all the remaining Bhs	m	5.3	1,590	320	310	5,08,800	4,92,900	This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities	
	Sub Total- C							38,96,100	34,53,480	
C	LABORATORY STUDIES									
1	Chemical Analysis									
i	Primary & Check samples									

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	a. Primary Samples for 10 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , SO ₃ , P ₂ O ₅ , K ₂ O, Na ₂ O and LOI by XRF	Nos	4.1.15a	4,200	320	254	13,44,000	10,66,800	Sample reduced due to sample interval 2m in uniform formation and sahle interclation in 2 BH
	b. External check samples (10%) for 10 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , SO ₃ , P ₂ O ₅ , K ₂ O, Na ₂ O and LOI by XRF	Nos	4.1.15a	4,200	32	23	1,34,400	96,600	
2	Physical & Petrological Studies							-	
i	Preparation of thin section	Nos	4.3.1	2,353	5	5	11,765	11,765	
ii	Complete petrographic study report	Nos	4.3.4	4,232	5	5	21,160	21,160	
iii	Bulk density Determination	Nos	4.10	3,540	2	2	7,080	7,080	
							15,18,405	12,03,405	
D							77,30,001	70,49,181	

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E	Geological Report Preparation		5.2	For the projects exceeding Rs. 50 Lakhs but less than 150 Lakhs: A Minimum of Rs. 2.5 lakhs or 5% of the work whichever is more			3,86,500	3,52,459	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.	
F	Peer review Charges		As per EC decision				30,000	30,000		
G	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1/28 EC	2% of the Cost or Rs.5 Lakhs whichever is lower			1,54,600	1,40,984	EA has to submit the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.	
H	Total Estimated Cost without GST							83,01,101	75,72,624	
I	Provision for GST (18% of I)							14,94,198	13,63,072	GST will be reimburse as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST							97,95,299	89,35,696	

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		Rs. (in lakhs)		97.95	89.36	-8.79%
Note:						
1	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.					
Note:						
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.					
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.					
3	If any part of the project is outsourced, the amount will be reimbursed as per the Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a certificate regarding non outsourcing of any component/project is required.					
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.					
5	Any item of work not mentioned above shall be added as per SoC.					

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The committee also recommended timeline extension upto 07.03.2026 for approval of PSC, NMEDT.

Agenda 91.4.3. Preliminary exploration (G-3 stage) for limestone in Mukteswarapuram Block, Suryapet District, Telangana [Implementing Agency: MECL]

- a. MECL informed that the project was approved by Chairman, EC on 25.06.2025 and ratified in the 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 2nd July, 2025 with timeline of 7 months (up to 01.02.2026) and approved cost was INR 92,94,204/-. Timeline extension upto 28.02.2026 was approved during 5th PSC meeting.
- b. The agency informed that the Geological Report (GR) of the project has been peer reviewed, and the comments/suggestions received from the reviewer have been duly complied with.
- c. The agency also apprised the committee that the resource has been estimated under 333+ 334 category and resources for cement, blendable and threshold grade has been calculated as follows:

Resource Category	Gross Geol. Resource (MT)	Net Geol. Resource (MT)	Grade
333+334	145.26	116.21	Cement Grade
333+334	2.77	2.22	Blendable Grade
333+334	105.46	84.35	Threshold Gr
333+334	253.49	202.78	All Grades

- d. The agency requested for timeline extension of upto 15.03.2026 for submission of Geological Report.
- e. The committee agreed for extension of timeline.

Recommendations of TCC-1:

The committee recommended timeline extension of 15 days, upto 15.03.2026 for approval of PSC, NMEDT. Timeline extension is recommended for submission of GR.

Agenda 91.4.4. Reconnaissance Survey (G-4) for Tungsten, REE and Associated minerals in and around Nellie Area (114.96 sq. km), Morigaon and West Karbi Anglong Districts, Assam [Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 37th EC Meeting held on 23rd September, 2024. The Sanction Order was issued on 22nd October, 2024 with timeline of 10 months (up to 21.08.2025) and approved cost was INR 264.31 Lakhs.

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- b. Timeline extension upto 28.02.2026 was approved during 3rd meeting of PSC.
- c. The agency apprised the committee that during its 85th meeting, TCC-I had suggested the agency to do Auger drilling of 200 m covering the whole area. The auger drilling was suggested to further evaluate the two potential zones (Zone-I: 20 sq km; Zone-II: 5 sq km) identified by the agency.
- d. During the 87th TCC-I meeting, the cost was revised and auger drilling was included in the scope as an outsourced component, in place of the originally approved hard rock drilling.
- e. MECL further apprised the Committee that the tendering process is underway. The technical bid has been opened, and the enquiry for submission of shortfall documents was completed on 24 February 2026. The financial bid will be opened after obtaining the necessary approval.
- f. It was further informed by the agency that forest clearance is awaited, and the agency is pursuing the matter with DGM, Assam and the Forest Department.
- g. The agency sought timeline extension of four (04) months for completion of work.
- h. The Committee deliberated on the issue and instructed the agency to submit details of all communications made in this regard concerning forest clearance, along with an update on the tendering process.
- i. The agency agreed for extension of timeline.

Recommendations of TCC-1:

The committee recommended timeline extension of four months upto 30.06.2026 for approval of PSC, NMEDT. The timeline extension is recommended for completion of work and submission of GR.

**Agenda 91.4.5. Preliminary Exploration (G3) for Tungsten & Associated Minerals in Bodkipet block (intervening area between Kuhi and Khobna blocks), District: Nagpur, Maharashtra
[Implementing Agency: MECL]**

- a. MECL informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 24th February, 2025 with timeline of 12 months (up to 23.02.2026) and approved cost was INR 4,15,32,062/-.
- b. The agency apprised the committee of progress of work and informed that 3 greisen zones (centre of the block) has been identified with 1 or 2 greisen bodies of potential mineralization.
- c. The greisen zones are mostly conformable to the schistose rocks and appear as veins from 10 cm to 2-3 meters in thickness in a zone approx. 25 m -30 m, with pinch and swell structure containing either tourmaline and quartz (referred to as tourmaline quartz mica greisen) or white quartz with minor mica (referred to as quartz mica greisen).
- d. Ground geophysical survey comprising IP–Resistivity, SP, and magnetic surveys was carried out over the block (5.39 sq. km), covering a cumulative length of 60

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L km. High chargeability and resistivity zones with moderate to strong magnetic anomalies corresponds to tungsten mineralized areas.

- e. The agency apprised the committee that the identified greisen with 1 or 2 greisen bodies of potential mineralisation is having a strike length of over 950 m.
- f. The agency further apprised that based on geological mapping and geophysical finding, the committee had suggested to do trenching prior to planning bore holes.
- g. The agency informed that, based on the recommendations of the 87th TCC-I, five trenches were initially planned. However, due to delays in obtaining forest clearance, only three trenches located outside the forest area were excavated out of the planned five. These trenches, amounting to a total of 98 cu. m, were undertaken to expose fresh sections of the ore body and to ascertain the strike extension of the greisen.
- h. It was also informed that Trench No. 1 exposed weathered mica schist with occurrences of weathered quartz–greisen float material. In Trench No. 2, quartz–mica greisen was encountered, whereas Trench No. 3 revealed quartz greisen beneath approximately 1.85 m of lateritic soil.
- i. A total of 42 trench samples were collected from the three trenches and analyzed for seven elements (W, Cr, Mo, Ta, Nb, V, and Sn). Additionally, five samples were analyzed for 34 elements, and the results are awaited.
- j. The agency proposed the drilling plan.
- k. The committee reviewed the progress and approved the drilling plan.
- l. The agency sought timeline extension of six months, upto 31.08.2026.
- m. The committee agreed to the extension of the project timeline and instructed the agency to present the progress for review after completion of two boreholes (BH) or after three months, whichever is earlier. The committee also clarified that the extended timeline shall include both the completion of the exploration work and the submission of the peer-reviewed Geological Report (GR).

Recommendations of TCC-1:

The committee recommended timeline extension of six months upto 31.08.2026 for approval of PSC, NMEDT. The extension is recommended for completion of work and submission of GR.

Agenda 91.4.6. Preliminary Exploration (G-3 Level) for REE Mineralization in Maravapaliyam Block (2.0 sq. km), Tiruppur District, Tamil Nadu [Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 37th EC Meeting held on 23rd September, 2024. The Sanction Order was issued on 22nd October, 2024 with timeline of 12 months (up to 21.10.2025) and approved cost was INR 125.17 Lakhs. Timeline extension upto 21.04.2026 was approved by PSC in its 3rd meeting.

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- b. The project was reviewed in 21st meeting of TCC-II, wherein the agency had requested for outsourcing of drilling. As per minutes of TCC-II, the proposal for outsourcing of drilling was not approved.
- c. The committee deferred the proposal to TCC-II for further deliberations.

Recommendations of TCC-1:

The committee deferred the review of project to TCC-II of NMEDT.

**Agenda 91.4.7. Preliminary Exploration (G3-Stage) for Tin in Kangra Block (6.35 sq. km. Area), District – Tehri Garhwal, Uttarakhand
[Implementing Agency: MECL]**

- a. MECL informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued on 13th December, 2024 with timeline of 15 months (up to 12.03.2026) and approved cost was INR 604.91 Lakhs.
- b. Outsourcing of drilling was deferred in 3rd PSC meeting.
- c. The project was reviewed in 21st meeting of TCC-II, wherein the agency had requested for outsourcing of drilling. As per minutes of TCC-II, the proposal for outsourcing of drilling was not approved.
- d. The committee deferred the proposal to TCC-II for further deliberations.

Recommendations of TCC-1:

The committee deferred the review of project to TCC-II of NMEDT.

**Agenda 91.4.8. Reconnaissance (G-4) for Manganese around Kandhal area of Rairakhol Tahasil of Sambalpur District, Odisha
[Implementing Agency: DMG Odisha]**

- a. DMG, Odisha informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The sanction order was issued on 13th December, 2024 with timeline of 10 months (up to 12.10.2025) and approved cost was INR 73,94,658/-.
- b. Extension of timeline of project upto 15.12.2025 and 31.03.2026 was approved during 2nd and 4th PSC meetings respectively.
- c. The project was reviewed in 81st and 83rd meeting of TCC-I and the committee was apprised that due to forest clearance issue, drilling could not be completed. The committee had recommended for submission of GR and cost was revised accordingly.
- d. However, PSC in its 3rd meeting deferred the cost revision and timeline extension and was of view that the drilling component of the project may be completed.
- e. The PSC suggested that, in view of the revised norms for forest clearance related to exploration, the agency should re-pursue forest clearance for drilling and make efforts to complete the project.

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- f. TCC-I in its 87th meeting, instructed that the agency should re-pursue forest clearance for drilling.
- g. The agency informed that in pursuance of PSC and TCC instructions, the DFO, Rairakhol was requested for according necessary working permission for execution of drilling over the manganese prospect.
- h. In response, the DFO, Rairakhol, stated that the canopy density in the working area is approximately 63.5%, indicating the presence of dense vegetation.
- i. The DFO, Rairakhol, further stated that, from an ecological perspective, Sagamalia RF forms part of an important elephant movement corridor. Any habitat fragmentation due to road construction and associated drilling activities is likely to have adverse impacts, potentially leading to increased human–elephant conflict and ecological disturbance.
- j. The agency informed that, in light of the above observations from the Forest Department, execution of the drilling component of the project is beyond its scope.
- k. The committee deliberated the issue and agreed to drop the drilling component and associated analysis from approved quantum.
- l. The committee also agreed upon revised cost as recommended during 83rd TCC-I meeting.
- m. The agency informed that the Geological Report (GR) of the project has been peer reviewed, and the comments/suggestions received from the reviewer have been duly complied with.
- n. The committee discussed the comments of peer reviewer and its compliance and agreed for submission of GR.

Recommendations of TCC-1:

The committee agreed to drop the drilling component and associated analysis. The committee also agreed upon submission of GR.

The revised cost of project from Rs. 73.94 lakh to Rs. 30.08 lakh with a change in amount of (-) Rs 43.86 lakhs (~59.32 % de-escalation) as recommended during 83rd TCC-I meeting may be approved by PSC, NMEDT. The cost was revised as per Annexure-4.


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Revised Cost for Reconnaissance Exploration for Manganese around the Kandhal area of Rairakhol Tehsil, Sambalpur District, Odisha

Sl. No.	Item of Work	Unit	Cost Approved by EC				Cost Revised			Remark
			SoC item Sl. No.	Rate as per SoC (in Rs)	Quantum of Work	Total Amount (Rs.)	Rate as per SoC (in Rs)	Quantum of Work	Total Amount (Rs.)	
1	GEOLOGICAL WORK									
i)	Charges for One Geologist - Field	per day	1.3	11,000	140	1540000	11,000	100	1100000	
ii)	Charges for One Geologist - HQ	per day	1.3	9,000	30	270000	9,000	30	270000	
iii)	Labours (2 Nos.) Base rate- As per rates of state labour commission (Amount will be reimbursed as per notified rates by central labour Commission rates or respective State Govt. Whichever is higher)	per day	5.7	522	280	146160	522	200	104400	
iv)	Channel sample 52 m (7 channels)	per day	5.7	522			522	26	13572	*A difference of ₹13,572/- has been noted in the approved cost of the project

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											submitted by agency during 81 st TCC
v)	Charges for one Sampler	per day	1.5.2	5,100	17	86700		5,100	12	61200	
vi)	Labours (4 Nos.) Base rate- As per rates of state labour commission.	per day	5.7	522	68	35496		522	48	25056	
	(Amount will be reimbursed as per notified rates by central labour Commission rates or respective State Govt. Whichever is higher)										
Sub Total-A						207835				1574228	
2	Survey (Outsourcing)										
i)	Survey Party days (One Surveyor Charges)	day	1.6.1a	8,300	0	0		8,300	0	0	
ii)	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS	Per Point of observatio n	1.6.2	19,200	4	76800		19,200	0	0	
iii)	Labours (4 Nos) Base Rate- As per rates of state labour commission Rs. 450*4=1800/-	day	5.7	1,800	0	0		1,800	0	0	
	(Amount will be reimbursed as per notified rates by central labour Commission rates or respective State Govt. Whichever is higher)										

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	Sub Total- B						76800			0	
3	DRILLING (Outsourcing)										
i)	Core Drilling	per m	2.2.1.4	11,500	200	230000 0	(4 BH:- 40- 50m depth)	11,500	0	0	
ii	Construction of concrete pillar(12"x12"x30")	Per Bore hole	2.2.7a	2,000	0	0		2,000	0	0	
iii)	Monthly Accomodation charges for drilling camp (up to 2 rigs)	Per Months	2.2.9	50,000	0	0		50,000	0	0	
iv)	Camp setting	Per drill	2.2.9a	25000 0	0	0		25000 0	0	0	
v)	Camp winding	Per drill	2.2.9b	25000 0	0	0		25000 0	0	0	
vi)	Approach road making	Per km	2.2.10b	32,200	0	0		32,200	0	0	
v)	Drill core preservation	Per m	5.3	1,590	80	127200		1,590	0	0	
	Sub Total- C						242720 0			0	
4	PITTING										
i)	Pitting	Cu.m	2.1.2	3,800	40	152000		3,800	40	152000	
ii)	Trenching	Cu.m	2.1.1	3,330	40	133200		3,330	40	133200	
	Sub Total-D						285200			285200	
5	LABORATORY STUDIES										
1	Chemical Analysis										
i)	XRF analysis of major oxide for 5 radicals (MnO ₂ , Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and LOI)	Per Sample	4.1.15a	4,200	125	525000		4,200	86	361200	

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ii)	Check samples Internal for 5 radicals (MnO ₂ , Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and LOI)	Per Sample	4.1.15a	4,200	13	54600		4,200	8	33600	
2	Physical Analysis										
i)	X-RD Studies	Per Sample	4.5.1	4,000	5	20000		4,000	5	20000	
ii)	Preparation of thin section	Per Sample	4.3.1	2,353	10	23530		2,353	10	23530	
iii)	Petrographic studies	Per Sample	4.3.4	4,232	10	42320		4,232	10	42320	
iv)	Preparation of polished section	Per Sample	4.3.2	1,549	5	7745		1,549	5	7745	
v)	Bulk density	Per Sample	4.1	3,540	2	7080		3,540	2	7080	
	Sub Total-E					680275				495475	
	Total A+B+C+D+E					554783				2354903	
	Total Outsourced cost					250400				0	
F	Tender Preparation, publishing & finalisation	One time	2.3			50080				0	
G	Operational Charge		6	i		250400				0	
H	Geological Report Preparation	One no.(5 hard copies,) along with soft copy	5.2			277392				117745.15	
I	Peer Review		As per EC decision			30000				30000	
J	Proposal preparation		5.1			110957				47098.06	

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	Sub Total (F + G + H +I)					718828				194843.21	
	TOTAL (A+B+C+D+E+ F + G + H +I+J)					626665 9				2549746.2 1	
	GST (18%)					112799 9				458954.32	
	Grand Total					739465 8				3008700.5 3	
	Say in lakh					73.94				30.08	
	Change in amount						(-) Rs. 43.86 lakhs	De-escalation of ~59.32%			
Note											
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.										
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.										
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.										
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.										
5	Any item of work not mentioned above shall be added as per SoC.										
6	All the Geological Reports and data are to be uploaded on NGDR portal as per Mineral Exploration Reporting Template (MERT) by the agency.										

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**Agenda 91.4.9. Preliminary Exploration (G3) for Bauxite in Kalychohra block,
Rayagada district, Odisha
[Implementing Agency: DMG Odisha]**

- a. DGM Odisha informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 24th February, 2025 with timeline of 12 months (up to 23.02.2026) and approved cost was INR 99,55,620/-.
- b. The agency apprised the committee about the progress of work and informed that the geological mapping and topographic survey has been completed. Drilling and related components are to be taken.
- c. The agency also informed that the drilling is outsourced and after the issuance of work order to the L1 bidder, rig was deployed on 25.12.2025.
- d. The agency informed that road construction for rig mobilization commenced on 02.01.2026 but was obstructed by villagers on 11.01.2026; matter reported to police.
- e. Multiple discussions were held with villagers and local authorities (18–21 Jan), but the issue remained unresolved and was escalated to district administration on 22.01.2026.
- f. Subsequent site visit and joint meetings (29.01.2026, 31.01.2026 & 10.02.2026) were conducted with officials and local stakeholders to resolve the stalemate.
- g. A meeting was convened on 25.02.2026 under the chairmanship of the Sub-Collector, Rayagada, following repeated negotiations with local stakeholders.
- h. Villagers opposed development of the existing eastern approach road and demanded construction of a new road from the western side, expressing resistance to ongoing exploration activities.
- i. The district administration assured support for execution of the Government project and sought additional time to reach an amicable resolution.
- j. With the background of conditions prevailing in the field area, the agency sought timeline extension upto 30.06.26.
- k. The committee discussed the issue and agreed for timeline extension.

Recommendations of TCC-1:

The committee recommended timeline extension of three months upto 30.06.2026 for approval of PSC, NMEDT. The extension is recommended for completion of work and submission of GR.

**Agenda 91.4.10. Reconnaissance Survey (G4) for REE and Associated Minerals
in Maddur area, Narayanpet District, Telangana
[Implementing Agency: CMT]**

- a. Critical Mineral Trackers informed that the project was approved in the 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 4th September, 2025 with timeline of 10 months (up to 03.07.2026) and approved cost was INR 1,31,12,292/-.

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- b. The agency presented the progress of work and apprised the committee that geological mapping of 160 sq. km. on 1:12,500 scale has been completed and 115 BRS samples have been collected. 45 pit samples, out of assigned target of 150 have been completed.
- c. The block area is predominantly composed of multiple intrusive phases of granitic rocks, later intruded by pegmatite and quartz veins along fractures and joints.
- d. Grey biotite granite forms the dominant lithology in the central part, while pink granite occurs in the northern and southern parts, representing a later intrusive phase.
- e. A prominent quartz reef is exposed in the northern part of the block, trending NW–SE.
- f. From the analytical results received so far, the TREE is reported to be in the range 76.65 to 504.8 ppm in Appareddipalli zone and 73.5 to 630 ppm in Pallerla zone.
- g. The committee reviewed the progress and instructed the agency to proceed with the work as per approved timeline.

Recommendations of TCC-1:

The committee suggested the agency to proceed with the work as per approved timeline.

**Agenda 91.4.11. Reconnaissance Survey (G4) for REE, Ni, Co and PGE in Podili area, Prakasam District, Andhra Pradesh
[Implementing Agency: CMT]**

- a. Critical Mineral Trackers informed that the project was approved in the 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 4th September, 2025 with timeline of 10 months (up to 03.07.2026) and approved cost was INR 1,90,21,860/-.
- b. The agency presented the progress of work and informed the committee that 210 sq. km of LSM on 1;12500 scale has been completed. 200 nos. of BRS samples have been collected and analysis of 112 samples have been received.
- c. The agency informed that results of 48 BRS samples of granites and syenites indicate anomalous REE values.
- d. In granites and alkali granites (n=30), Σ REE ranges from 20 to 1091.2 ppm, with significant LREE enrichment and HREE up to 47.2 ppm.
- e. In syenites (n=18), Σ REE ranges from 3.1 to 551.1 ppm, with comparatively lower HREE values up to 29.6 ppm.
- f. The agency also informed that analytical results of 16 BRS samples (granite, gabbro, and hornblende syenite) indicate slight enrichment of elemental values over crustal abundance.
- g. In granite samples (n=4), 10 out of 34 elements were found to be anomalous, with notable values of As (12.5–30.8 ppm) and Rb (72.4–234.3 ppm).

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- h. The committee reviewed the progress and noted only values of REE is shown. The agency enquired about the details of other commodities as mentioned in objective of project.
- i. The committee suggested the agency to present the analytical details of Ni, Co and PGE too in next review.

Recommendations of TCC-1:

The committee suggested the agency to present the analytical details of Nickel, Cobalt and PGE too in next review.

Agenda 91.4.12. Preliminary Exploration (G-3) For Limestone in Mattampally Block-1, Mattampally Cluster-2, Suryapet District, Telangana [Implementing Agency: TGMDC]

- a. TGMDC informed that the project was approved in the 1st PSC Meeting held on 9th October, 2025. The Sanction Order was issued on 10th November, 2025 with timeline of 10 months (up to 09.09.2026) and approved cost was INR 94,92,301/-.
- b. The agency informed that all the assigned target of the project, including detailed mapping (DM) on 1:4000 scale of 4.52 sq. km has been achieved.
- c. The agency apprised the committee that chemical analyses have yielded CaO in the range of 3.54-50.05%, 3.57-50.17%, 3.57-50.30%, 35.57-50.40% and 31.20-50.22% in Boreholes MP1 BH-1, MP1 BH-2, MP1 BH-3, MP1 BH-4 and MP1 BH-5 respectively.
- d. The agency further informed that resource estimation was carried out using an average bulk density of 2.51.
- e. Estimation was undertaken using two methods: Thiessen (Voronoi) Polygonal (Area of Influence) Method and TIN Volume Surface Method (Civil 3D).
- f. Thiessen (Voronoi) Polygonal (Area of Influence) Method have estimated 430.01 MT Gross mineable resource whereas TIN Volume Surface Method (Civil 3D) have estimated 403.92 MT Gross mineable resource.
- g. The resource falls under Inferred Resources (333) as per UNFC/ MEMC Rule.
- h. The agency sought peer reviewer for Geological Report.
- i. The committee reviewed the work and agreed upon review of GR.

Recommendations of TCC-1:

The committee agreed for peer review of GR.

Agenda 91.4.13. Preliminary Exploration(G-3) For Limestone in Mattampally Block-2, Mattampally Cluster-2, Suryapet District, Telangana [Implementing Agency: TGMDC]

- a. TGMDC informed that the project was approved in the 1st PSC Meeting held on 9th October, 2025. The Sanction Order was issued on 10th November, 2025 with timeline of 10 months (up to 09.09.2026) and approved cost was INR 86,00,567/-.

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- b. The agency informed that all the assigned target of the project, including detailed mapping (DM) along with topographic survey on 1:4000 scale of 3.85 sq. km has been achieved.
- c. The agency apprised the committee that chemical analyses have yielded CaO in the range of 1.23-50.21%, 39.60-49.46%, 40.98-50.57%, 28.57-45.90% and 27.20-43.26% in Boreholes MP2 BH-1, MP2 BH-2, MP2 BH-3, MP2 BH-4 and MP2 BH-5 respectively.
- d. The agency further informed that resource estimation was carried out using an average bulk density of 2.51.
- e. Estimation was undertaken using two methods: Thiessen (Voronoi) Polygonal (Area of Influence) Method and TIN Volume Surface Method (Civil 3D).
- f. Thiessen (Voronoi) Polygonal (Area of Influence) Method have estimated 304.57 MT Gross mineable resource whereas TIN Volume Surface Method (Civil 3D) have estimated 304.88 MT Gross mineable resource.
- g. The resource falls under Inferred Resources (333) as per UNFC/ MEMC Rule.
- h. The agency sought peer reviewer for Geological Report.
- i. The committee reviewed the work and agreed upon review of GR.

Recommendations of TCC-1:

The committee agreed for peer review of GR.

**Agenda 91.4.14. Preliminary Exploration (G3 Stage) of Limestone, Gadeghat - Khatera block, Yavatmal District, Maharashtra
[Implementing Agency: MMPL]**

- a. The MMPL informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 10th February, 2025 with timeline of 10 months (up to 09.12.2025) and approved cost was INR 2,31,42,842/-.
- b. Timeline was extended upto 28.02.2026 by PSC in its 5th meeting.
- c. The agency informed that the Geological Report (GR) of the project has been peer reviewed, and the comments/suggestions received from the reviewer have been duly complied with.
- d. The agency also apprised the committee that the resource has been estimated under 333 category and resources for blendable and unclassified limestone grade has been calculated using polygona area method.
- e. 103.34 MT of gross geological resource has been estimated for blendable grade limestone, whereas, 1158.71 MT of gross geological resource has been estimated for unclassified limestone.
- f. The agency requested for timeline extension of upto 15.03.2026 for submission of Geological Report.
- g. The committee agreed for extension of timeline.

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Recommendations of TCC-1:

The committee recommended timeline extension of 15 days, upto 15.03.2026 for approval of PSC, NMEDT. Timeline extension is recommended for submission of GR.

Agenda 91.4.15. Reconnaissance Survey (G4) for Glauconite and associated mineralization in Dhamni-Piparwasi Simliya area, Sheopur district, Madhya Pradesh

[Implementing Agency: MMPL]

- a. MMPL informed that the project was approved in the 36th EC Meeting held on 29th July, 2024. The Sanction Order was issued on 21st August, 2024 with timeline of 12 months (up to 20.08.2025) and approved cost was INR 1,06,22,030/-. The revised cost of Rs. 85,48,621.91/- was approved during 1st PSC meeting.
- b. Timeline extension upto 28.02.2026 was approved by PSC during its 5th meeting.
- c. The agency informed that G4 exploration in the Dhamni–Piparwasi–Simliya Block delineated glauconitic sandstone zones with potash content ranging from 0.1% to 3.65% K₂O, along with associated lithium anomalies.
- d. Analytical results indicate that over 75% of bedrock samples exceeded 0.5% K₂O and ~20% exceeded 1.5% K₂O, with borehole cores averaging ~2% K₂O; two scout boreholes confirmed glauconitic horizons of 21.5 m and 16 m thickness.
- e. Total inferred resources are estimated at 15.27 million tonnes (UNFC 334) at average grades of 2.39–3.85% K₂O; lithium values exceeded 100 ppm at surface (up to >220 ppm) but were not recorded in boreholes, with mineralization occurring in stratigraphic pockets of glauconitic sandstone.
- f. The agency informed that the Geological Report (GR) of the project has been peer reviewed, and the comments/suggestions received from the reviewer have been duly complied with.
- g. The agency requested for timeline extension of upto 15.03.2026 for submission of Geological Report.
- h. The committee agreed for extension of timeline.

Recommendations of TCC-1:

The committee recommended timeline extension of 15 days, upto 15.03.2026 for approval of PSC, NMEDT. Timeline extension is recommended for submission of GR.

Agenda 91.4.16. Preliminary Exploration (G-3 Stage) for Gold in Chinnikatti Block, Haveri District, Karnataka

[Implementing Agency: Mining Tech Consultancy Services Limited]


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- a. The agency informed that the project was approved during 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 10th February, 2025 with timeline of 12 months (up to 09.02.2026) and approved cost was INR 4,69,08,089/-.
- b. During 89th TCC-I meeting, the committee recommended timeline extension upto 09.08.2026 for approval of PSC, NMEDT. The timeline extension was recommended for obtaining forest clearance and completion of project.
- c. However, PSC in its 5th meeting approved timeline extension upto 09.05.2026.
- d. The agency submitted all the communications pertaining to forest clearance to NMEDT secretariat and requested the committee to extend the timeline upto 09.08.2026.
- e. The committee reviewed the progress of work and opined that the values of Gold and Silver are encouraging.
- f. The committee agreed for extension of timeline.

Recommendations of TCC-1:

The committee recommended timeline extension upto 09.08.2026 from 09.05.2026 for approval of PSC, NMEDT. The timeline extension is recommended for obtaining forest clearance and completion of project.

**Agenda 91.4.17. Preliminary Exploration (G-3) for Graphite in Arasanur East block, Sivaganga district, Tamil Nadu
[Implementing Agency: KIOCL]**

- a. KIOCL informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The sanction order was issued on 10th June, 2024 with timeline of 12 months (up to 09.06.2025) and approved cost was INR 3,46,19,535/-.
- b. Timeline extension upto 31.12.2025 was approved during 43rd EC meeting.
- c. The agency informed that the Geological Report (GR) of the project has been peer reviewed, and the comments/suggestions received from the reviewer have been duly complied with.
- d. The committee discussed the peer reviewers' comments and its compliance.
- e. During 84th TCC-I meeting, the agency had agency reported that graphite mineralization in the Arasanur block is lensoid in nature and has been established up to a vertical depth of 30m.
- f. It was also informed that three boreholes drilled to a vertical depth of 60 m did not intersect mineralization, indicating limited depth continuity.
- g. The agency sought for revision of cost due to reduced drilling target and associated components.
- h. The agency also sought Timeline extension upto 07.03.2026 for submission of GR.

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Recommendations of TCC-1:

The committee recommended revision of cost from Rs. 346.20 lakh to Rs. 232.99 lakh with a change in amount of (-) Rs 113.21 lakhs (~37.7 % de-escalation) for approval of PSC, NMEDT as per Annexure 5.

The committee also recommended timeline extension upto 07.03.2026 for approval of PSC, NMEDT.

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Revised Cost Sheet for Preliminary Exploration (G-3) for Graphite in Arasanur East block, Sivaganga district, Tamil Nadu

SI	Item of Work	Unit	Rates as per NMET SoC	TCC - NMET approved Qty			Quantities executed				
			SOC Item No	Rates as per SOC	Qty	Amount (Rs)	Unit price	Qty	Amount (Rs)	Outsourced components	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)=(e)*(f)	(h)	(i)	(j)=(h)*(i)	(k)	(l)
1	LARGE SCALE GEOLOGICAL MAPPING WORKS (1:2000 scale :1.93sq km)										
1.1	Geologist Party days - Field	days	1.2	11,000	160.0	17,60,000	11,000	160.0	17,60,000		
1.2	Geologist Party days - HQ		1.2	9,000	40.0	3,60,000	9,000	40.0	3,60,000		
1.3	Labour charges @ 2nos per Geologist	days	5.7	504	320	1,61,280	504	320	1,61,280		
2	TRENCHING WORKS										
2.1	Trenching works	cum	2.1.2	3,800	200	7,60,000	3,800	200	7,60,000		
3	Survey works										
3.1	Demarkation of Lease boundary and fixation of borehole and determination of coordinates and RL by DGPS	Per point of observation	1.6.2	19,200	29	5,56,800	19,200	22	4,22,400		22 nos (BP-7 + BH 15)
3.2	Survey party days (1 party) without Labour for contouring (2m interval)	days	1.6.1.a	8,300	50	4,15,000	8,300	50	4,15,000		

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3.3	Labour for Survey (4 Nos)	days	5.7	504	200	1,00,800	504	200	1,00,800		
4	Geophysical Surveys (Outsourcing)										
4.1	IP, SP, Resistivity and Magnetic Survey for 2 sqkm (2.7km X 0.8km)	line km	3.4b	14,48,693	2	28,97,386	14,48,693	2	28,97,386	28,97,386	Out sourced to MECL : Annex 01
5	DRILLING										
5.1	Surface Drilling	m	2.2.1.3	10,100	1400	1,41,40,000	5,695	1194	67,99,830	67,99,830	Outsourced through GeM (Annx 02)
5.2	Core preservation	m	5.3	1,590	700	11,13,000	1,590	700	11,13,000		
6	LABORATORY STUDIES										
6.1	Sample processing works- 880 Nos (630 BHs+150 Trench + 100 BRS)	Sampler charges	days	1.5.2	5,100	125	6,37,500	5,100	84	4,28,400	
6.2		Labour charges	days	5.7	504	500	2,52,000	504	336	1,69,344	
6.3		Primary		4.1.16	3,000	880	26,40,000	3,000	590	17,70,000	590 (30 BRS + 129 Trench samples+43 1 Bhs)
6.4	Proximate Analyses for graphite (4 radicals : VM,FC, Moisture & Ash)	External Check (10%)	per sample	4.1.16	3,000	88	2,64,000	1,254.24	64	80,271	Outsourced through GeM (Annex 03)
6.5		ICPMS / ICP-OES (34 elements analysis)		4.1.14	7,731	20	1,54,620	7,731	20	1,54,620	

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6.6		REE analysis of 14 elements ICPMS		4.1.13	5,380	10	53,800	-	-	-		Not executed
6.7	Petro studies	Preparation of Standard Thin section	nos	4.3.1	2,353	10	23,530	2300	10	23,000		Out sourced to IIT, Bombay (Annex 04)
6.8		Complete Petrological Report of rock sample	nos	4.3.4	4,232	10	42,320	4000	10	40,000		
6.9		Preparation of Polished Thin section	nos	4.3.2	1,549	10	15,490	1500	10	15,000		
##		Mineragraphic studies	nos	4.3.4	4,232	10	42,320	4000	10	40,000		
##		XRD Studies	nos	4.5.1	4,000	10	40,000	3900	10	39,000		
##	Determination of Insitu bulk density	nos	4.10	3,540	5	17,700	3,540	5	17,700			
7	Sub Total (1+2+3+4+5+6)					2,64,47,546			1,75,67,031	96,97,216		
8	Peer review of report	lumpsum				30,000			30,000			
9	Preparation of Exploration Project Proposal	lumpsum	5.1			5,00,000			3,51,341			
10	Exploration Report	lumpsum	5.2(iii)	Min of 7.5 lakh or 3 % of work which ever is more		7,93,426			7,50,000			
11	Tender processing Cost	lumpsum	2.3	2% of the approved project cost or 5 lakh whichever is lower		3,40,743			1,93,944		2% of Rs. 99,31,539/-	
12	Operational Charges (Reimbursemen	lumpsum	6(ii)			12,26,869			8,52,291		₹5.0 lakh plus 5 percent on	

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	t of cost in case of outsourced components of project work)										the balance amount of outsourced cost in excess of ₹0.5crore.	
13	GRAND TOTAL (7 to 12)					2,93,38,584				1,97,44,608		
14	GST 18%					52,80,945				35,54,029		
15	Grand Total (with GST 18%)					3,46,19,530				2,32,98,637		
						346.20 lakh				232.99 lakh		
										Change in cost	1,13,20,893	37.7% of de-escalation
										Change in cost (in lakh)	113.21 lakh	
Note :												
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.											
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.											
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of excusion of the project by NEA on its own, a Certifiante regarding non outsourcing of any component/project is required.											
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.											
5	Any item of work not mentioned above shall be added as per SoC.											

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Agenda 91.4.18. (Additional): Preliminary Exploration (G-3) For Limestone in Raghunathpalem Block, Raghunathapalem Cluster-3 Suryapet District, Telangana
[Implementing Agency: TGMDC]

- a. TGMDC informed that the project was approved in the 1st PSC Meeting held on 9th October, 2025. The Sanction Order was issued on 10th November, 2025 with timeline of 10 months (up to 09.09.2026) and approved cost was INR 98,83,161/-.
- b. The agency informed that all the assigned target of the project, including detailed mapping (DM) along with topographic survey on 1:4000 scale of 5.38 sq. km has been achieved.
- c. The agency apprised the committee that chemical analyses have yielded CaO in the range of 29.67-43.12%, 27.27-49.53%, 41.38-49.16%, 25.87-49.84% and 45.54-51.06% in Boreholes RP2 BH-1, RP2 BH-2, RP2 BH-3, RP2 BH-4 and RP2 BH-5 respectively.
- d. The agency further informed that resource estimation was carried out using an average bulk density of 2.476.
- e. Estimation was undertaken using Thiessen (Voronoi) Polygonal (Area of Influence) Method.
- f. Thiessen (Voronoi) Polygonal (Area of Influence) Method have estimated 467.16 MT Gross mineable resource
- g. The resource falls under Inferred Resources (333) as per UNFC/ MEMC Rule.
- h. The agency sought peer reviewer for Geological Report.
- i. The committee reviewed the work and agreed upon review of GR.

Recommendations of TCC-1:

The committee agreed for peer review of GR.

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Annexure 7

List of participants who attended the 91st Meeting of Technical-cum-cost Committee (TCC-I) of NMEDT held on 27th and 28th February, 2026 through video conferencing mode

S.no	Name	Designation	Email ID	Contact No	Organization
1	Dr. S. Ravi	Dy. Director General, GSITI, Hyderabad	s.ravi1@gsi.gov.in	9441138834	Chairman, TCC-1
2	Shri. I.R. Kirmani	ADG (Retd.), GSI	irkirmani@yahoo.com	9414014723	Member TCC-1
3	Shri. M. Mohan	Dy. Director General (Retd.), GSI	mariappan.mohan@gmail.com	9423686547	Member TCC-1
4	Shri. K. Koteswara Rao	Dy. Director General (Retd.), GSI	kkrao1957@gmail.com	9000117969	Member TCC-1
5	Dr. S. K. Kulshrestha	DDG-RMH-III, NER, GSI, Shillong	s.kulshrestha@gsi.gov.in	9413330658	Member TCC-1
6	Shri A. R. Mukundhan	Regional Director, AMD, South Central Region	mukuagaram@rediffmail.com	6303606347	Member TCC-1
7	Dr. E.V.S.S.K. Babu	Scientist (G), NGRI	evsskbabu@ngri.res.in	9441535852	Member TCC-1
8	Shri. P.K. Maharana	DGM (Finance), NALCO, Bhubaneswar	pmaharana@rediffmail.com	8500669500	Member TCC-1
9	Shri. Ravi Kumar Gupta	General Manager (Finance) HCL, Kolkata	ravi_g@hindustancopper.com	9433274328	Member TCC-1
10	Smt. Vandana	Cost Accounts Officer, RSAS, Bangalore, GSI	vandana@gsi.in	8660939235	Member TCC-1
11	Shri S Dhanendran	Director, GSITI & Member Secretary, TCC-I	s.dhanendran@gsi.gov.in	9944882204	Member Secretary TCC-1
12	Representatives from RSAS, GSI				
13	Representatives from DGM, Rajasthan				
14	Representatives from DMG Odisha				
15	Representatives from TGMDC				
16	Representatives from MECL				
17	Representatives from KIOCL				
18	Representatives from APC Drilling				
19	Representatives from Envirogreen Consultants (India) Private Limited				
20	Representatives from M/s Siddharth Geo Consultant				
21	Representatives from Gemcokati Exploration Pvt. Ltd.				
22	Representatives from M/s Eartnenviro Lab Pvt. Ltd.,				
23	Representatives from M/s Vardan Environet LLP				
24	Representatives from M/s Unised Research Consultants Pvt. Ltd.				

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25	Representatives from M/s Indian Mining Planners and Consultant				
26	Representatives from M/s. Ocean Drilling and Exploration Private Limited				
27	Representatives from M/s. Mining Associates Pvt. Ltd.				
28	Representatives from M/s. GMMCO				
29	Representatives from M/s. GeoExpOre Pvt. Ltd.				
30	Representatives from MMPL Pvt. Ltd.				
31	Representatives from Critical Mineral Trackers				
32	Representatives from Mining Tech & Consultancy Services Ltd.				
33	Ms. Bishakha	Sr. Geologist	nmet-mines@gov.in	8126541605	NMEDT
34	Smt. Palak Kapoor	Sr. Geologist	nmet-mines@gov.in		NMEDT

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